

Spett. Società  
Acqua Quarto  
Via Marie Curie, 25  
80010 Quarto - NA

CERTIFICATO DI ANALISI 17F022 Napoli 22/06/17

Oggetto:	Analisi campioni d'acque in accordo al D.Lgs. 31/01 s.m.i													
Richiedente:	Società Acqua Quarto													
Luogo prelievo:	Comune di Quarto (NA), nei punti indicati nella descrizione dei campioni.													
Prelievo:	effettuato dal personale tecnico qualificato del laboratorio													
Data ricezione campione/i	01/06/17	Data termine analisi				22/06/17	Data trasmissione risultati				22/06/17			
Protocollo	DESCRIZIONE CAMPIONI													
17F022	Quarta 7_Via Viticella													
RISULTATI ANALISI														
Analisi richieste	Campioni					Valori di parametro Dlgs 31/01	Metodo d'analisi di riferimento	unità di misura	Esattezza	Precisione	Limite di rilevabilità	Note		
	17F022	/	/	/	/									
Giorno prelievo	01/06/17	---	---	---	---	---	---	gg-mm	---	---	---	---		
Ora	11.30	---	---	---	---	---	---	h,min	---	---	---	---		
Parametri Organolettici														
Colore	1	---	---	---	---	... <sup>1</sup>	ISS BJA.021	mg/l, Sc. Pt/Co	20	10	---	C, 1		
Odore	0	---	---	---	---	... <sup>1</sup>	ISS BAA.026	tasso di dil.	---	---	---	C, 1		
Sapore	0	---	---	---	---	... <sup>1</sup>	ISS BKA.028	tasso di dil.	---	---	---	C, 1		
Parametri generali														
Ammonio	< 0.05	---	---	---	---	0.50	ISS BHE.019	mg/l, NH <sub>4</sub>	10	10	0.05	---		
Carbonio organico totale	450	---	---	---	---	... <sup>1</sup> ... <sup>5</sup>	BIA.029.rev00	µg/l, C	10	10	10	C, 1, 5		
Concentrazione ioni idrogeno	7.73	---	---	---	---	6.5-9.5 <sup>3</sup>	ISS BCA.023	pH	0.2 <sup>a</sup>	0.05 <sup>a</sup>	--	C, 3, 17, u		
Conducibilità elettrica	408	---	---	---	---	2500 <sup>3</sup>	ISS BDA.022	µS/cm, 20 °C	5	5	5	C, 3		
Durezza totale (titolazione)*	23	---	---	---	---	15-50 *	ISS BEC.031	°F	10	15	0.5	C, *		
Ossidabilità	0.5	---	---	---	---	5.0 <sup>4</sup>	BEB.027.rev00	mg/l, O <sub>2</sub>	25	25	0.2	C, 4		
Residuo secco**	306	---	---	---	---	1500 **	ISS BFA.032	mg/l, 180 °C	5	5	5	C, **		
Temperatura	14.4	---	---	---	---	---	ISS BBA.043	°C	1 <sup>u</sup>	0.5 <sup>u</sup>	--	u		
Torbidità	0.25	---	---	---	---	... <sup>1</sup> ; 1 <sup>2</sup>	ISS BLA.030	NTU	10	5	0.1	C, 1, 2		
Analisi Cloro/biossido di cloro														
Cloro residuo (DPD) (A)	0.19	---	---	---	---	0.2***	ISS BHD.033	mg/l, Cl <sub>2</sub>	25	12	0.05	C, ***		
Cloro residuo libero (A - G)	0.10	---	---	---	---	0.2	ISS BHD.033	mg/l, Cl <sub>2</sub>	25	12	0.05	C		
Cloro residuo combinato (C-A)	0.02	---	---	---	---	0.2	ISS BHD.033	mg/l, Cl <sub>2</sub>	25	12	0.05	C		
Biossido di cloro (1.9 °G)	0.17	---	---	---	---	0.2	ISS_BHD.033; SM 4500ClO <sub>2</sub> D	mg/l, ClO <sub>2</sub>	25	12	0.05	C		
Cloriti [D - (4C + G)]	0.22	---	---	---	---	0,7 <sup>16</sup>	ISS_BHD.033; SM 4500ClO <sub>2</sub> D	mg/l, Cl <sub>2</sub>	25	12	0.05	B, 16		
Anioni														
Boro	<0.1	---	---	---	---	15.7	ISS_BHB.005; SM_3125 B;	mg/l, B	10	10	0.1	B, c		
Bromato	<1	---	---	---	---	10; 25 <sup>11</sup>	ISS_CBB.006	µg/l	25	25	5	B, 11		



RISULTATI ANALISI													Esattezza	Precisione	Limite di rilevabilità	Note
Analisi richieste	Campioni					Valori di parametro Dlgs 31/01	Metodo d'analisi di riferimento	unità di misura								
	17F022	/	/	/	/											
<b>Bromuri</b>	0.02	---	---	---	---	---	ISS_CBB.037	mg/l	---	---	0.05	B, 11				
<b>Cianuri</b>	<50	---	---	---	---	50	ISS_BHC.010	µg/l, CN	10	10	5	B				
<b>Cloruri</b>	8.0	---	---	---	---	250 <sup>3</sup>	ISS_CBB.037; BEA.020	mg/l, Cl	10	10	0.5	C, 3				
<b>Fluoruri</b>	220	---	---	---	---	1500	ISS_CBB.037; IRSA_4100	µg/l, F	10	10	0.1	B				
<b>Fosfati</b>	<0.1	---	---	---	---	---	IRSA_4110; SM_3125 B	mg/l, PO4	---	---	0.2	B, 11				
<b>Nitrati</b>	5.5	---	---	---	---	50 <sup>7</sup>	ISS_CBB.037; ISS-97-8-p.59	mg/l, NO <sub>3</sub>	10	10	0.5	B, 7				
<b>Nitriti</b>	< 0.05	---	---	---	---	0.50 <sup>7</sup>	ISS-R_97/8-p.63; SM_4500-NO <sub>2</sub> B	mg/l, NO <sub>2</sub>	10	10	10	B, 7				
<b>Solfati</b>	8.9	---	---	---	---	250 <sup>3</sup>	ISS_CBB.037; ISS-05_Turb.	mg/l, SO <sub>4</sub>	10	10	10	C, 3				
<b>Metalli (Alcalini e Alcalini terrosi)</b>																
<b>Calcio</b>	75	---	---	---	---	---	ISS_DBA.035; SM_3125 B;	mg/l, Na	---	---	1	C				
<b>Litio</b>	1.4	---	---	---	---	---	ISS_DBA.035; SM_3125 B;	µg/l, Li	---	---	0.5	C				
<b>Magnesio</b>	15	---	---	---	---	---	ISS_DBA.035; SM_3125 B;	mg/l, Mg	---	---	1	C				
<b>Potassio</b>	4.7	---	---	---	---	---	ISS_DBA.035; SM_3125 B;	mg/l, K	---	---	0.5	C				
<b>Sodio</b>	8.0	---	---	---	---	200	ISS_DBA.035; SM_3125 B;	mg/l, Na	10	10	1	C				
<b>Metalli e Non Metalli (ICP/MS) (i metalli e non metalli previsti da dlgs 31/01)</b>																
<b>Alluminio</b>	<20	---	---	---	---	200	ISS_DBA.035; SM_3125 B;	µg/l, Al	10	10	20	C				
<b>Antimonio</b>	< 0.5	---	---	---	---	5.0	ISS_DBA.035; SM_3125 B;	µg/l, Sb	25	25	1	B				
<b>Arsenico</b>	< 1	---	---	---	---	10	ISS_DBA.035; SM_3125 B;	µg/l, As	10	10	1	B				
<b>Boro</b>	<0.1	---	---	---	---	1.0	ISS_DBA.035; SM_3125 B;	mg/l, B	10	10	0.1	B, c				
<b>Cadmio</b>	<0.3	---	---	---	---	5.0	ISS_DBA.035; SM_3125 B;	µg/l, Cd	10	10	0.3	B				
<b>Cromo</b>	< 1	---	---	---	---	50	ISS_DBA.035; SM_3125 B;	µg/l, Cr	10	10	1	B				
<b>Ferro</b>	<20	---	---	---	---	200	ISS_DBA.035; SM_3125 B;	µg/l, Fe	10	10	20	C				
<b>Manganese</b>	< 1	---	---	---	---	50	ISS_DBA.035; SM_3125 B;	µg/l, Mn	10	10	1	C				
<b>Mercurio</b>	< 0.2	---	---	---	---	1.0	ISS_DBA.035; SM_3125 B;	µg/l, Hg	20	10	0.2	B				
<b>Nichel</b>	< 1	---	---	---	---	20 <sup>8</sup>	ISS_DBA.035; SM_3125 B;	µg/l, Ni	10	10	2	B, 8				
<b>Piombo</b>	< 1	---	---	---	---	10 <sup>8</sup> ; 25 <sup>9</sup>	ISS_DBA.035; SM_3125 B;	µg/l, Pb	10	10	1	B, 8, 9				
<b>Rame</b>	< 1	---	---	---	---	1000 <sup>8</sup>	ISS_DBA.035; SM_3125 B;	µg/l, Cu	10	10	1	B, 8				
<b>Selenio</b>	< 1	---	---	---	---	10	ISS_DBA.035; SM_3125 B;	µg/l, Se	10	10	1	B				
<b>Silice</b>	4.3	---	---	---	---	---	SM_3125 B	mg/l, Si	10	10	0.01	---				
<b>Sodio</b>	8.0	---	---	---	---	200	ISS_DBA.035; SM_3125 B;	mg/l, Na	10	10	2	C				
<b>Vanadio</b>	2.1	---	---	---	---	50	ISS_DBA.035; SM_3125 B;	µg/l, V	10	10	1	B				
<b>Antiparassitari (Singoli)</b>	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12				
<b>Antiparassitari (Totali per Gruppi)</b>	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12				
<b>Acaricidi organici</b>	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12				
<b>Erbicidi organici</b>	< 0.01	---	---	---	---	0.10	APAT_IRSA 5050_60	µg/l	10	10	0.01	B, 12				
<b>Fungicidi organici</b>	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12				

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Analisi richieste	Campioni					Valori di parametro Digs 31/01	Metodo d'analisi di riferimento	unità di misura					
	17F022	/	/	/	/								
Insetticidi organici	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12, 13	
Regolatori di crescita	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Metaboliti pertinenti	< 0.01	---	---	---	---	0.10	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Antiparassitari (totali) <sup>12</sup>	< 0.05	---	---	---	---	0.50	ISS_CAC.015	µg/l	10	10	0.05	B, 12, 14	
<b>ANTIPARASSITARI SPECIFICI</b>													
Aldrin	< 0.003	---	---	---	---	0.03	ISS_CAC.015	µg/l	10	10	0.003	B, 12	
Dieldrin	< 0.003	---	---	---	---	0.03	ISS_CAC.015	µg/l	10	10	0.003	B, 12	
Eptacloro	< 0.003	---	---	---	---	0.03	ISS_CAC.015	µg/l	10	10	0.003	B, 12	
Eptacloroepossido	< 0.003	---	---	---	---	0.03	ISS_CAC.015	µg/l	10	10	0.003	B, 12	
Endosulfan A	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Endosulfan B	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Endosulfansolfato	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Atrazina	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Fenitrothion	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Iprodione	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Malation	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Procimidone	< 0.01	---	---	---	---	0.1	ISS_CAC.015	µg/l	10	10	0.01	B, 12	
Idrocarburi Policiclici Aromatici Tot. (GC/MS/FID)	< 0.006	---	---	---	---	0.10	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.006u	0.006u	0.006	B, 15	
<b>Idrocarburi policiclici aromatici Spec.</b>													
Benzo (b) fluorantene	< 0.006	---	---	---	---	0.10	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.006u	0.006u	0.006	B, 15	
Benzo (k) fluorantene	< 0.006	---	---	---	---	0.10	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.006u	0.006u	0.006	B, 15	
Benzo (ghi)perilene	< 0.006	---	---	---	---	0.10	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.006u	0.006u	0.006	B, 15	
Benzo-a-pirene	< 0.003	---	---	---	---	0.010	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.003u	0.003u	0.003	B	
Indeno (1,2,3-cd)pirene	< 0.006	---	---	---	---	0.10	ISS_CAB.039; SM_6410 B; 6440 B	µg/l	0.006u	0.006u	0.006	B, 15	
<b>Composti Organo Alogenati totali</b>													
Composti Organo Alogenati totali	< 0.2	---	---	---	---	10, α	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	0.5	B, 15, e	
<b>Composti Organo Alogenati specifici</b>													
Tricloroetilene	< 0.2	---	---	---	---	10, α	ISS_CAA.036 ISS_CAA.004	µg/l	1.2 <sup>n</sup>	1.2 <sup>n</sup>	0.1	B, 15, e, u	
Tetracloroetilene	< 0.2	---	---	---	---	10, α	ISS_CAA.036 ISS_CAA.004	µg/l	1.2 <sup>n</sup>	1.2 <sup>n</sup>	0.1	B, 15, e, u	
<b>Triometani totali</b>													
Triometani totali	0.9	---	---	---	---	30, β	ISS_CAA.036 ISS_CAA.004	µg/l	1.8 <sup>n</sup>	1.8 <sup>n</sup>	0.5	B, 15, e, u	
<b>Triometani, composti specifici</b>													

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Analisi richieste	Campioni					Valori di parametro Digs 31/01	Metodo d'analisi di riferimento	unità di misura							
	17F022	/	/	/	/										
<b>Cloroformio</b>	< 0.2	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	1.8 <sup>u</sup>	1.8 <sup>u</sup>	0.1	B, 15, e, u			
<b>Bromodichlorometano</b>	< 0.2	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	1.8 <sup>u</sup>	1.8 <sup>u</sup>	0.1	B, 15, e, u			
<b>Dibromoclorometano</b>	0.3	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	1.8 <sup>u</sup>	1.8 <sup>u</sup>	0.1	B, 15, e, u			
<b>Bromoformio</b>	0.6	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	1.8 <sup>u</sup>	1.8 <sup>u</sup>	0.5	B, 15, e, u			
<b>Altri Contaminanti Organici Specifici</b>															
<b>Acrilammide</b>	< 0.1	----	----	----	----	0.10	ISS XAA.001	$\mu\text{g/l}$	---	---	---	B, 10, e			
<b>Benzene</b>	< 0.25	----	----	----	----	1.0 (0.5)	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	0.25	B, 18, e			
<b>Benzo-a-pirene</b>	< 0.003	---	---	---	---	0.010	ISS_CAB.039; SM_6410 B; 6440 B	$\mu\text{g/l}$	0.003 <sup>u</sup>	0.003 <sup>u</sup>	0.003	B, u			
<b>Cloruro di vinile</b>	< 0.2	---	---	---	---	0.5	ISS_XAA.040 ISS_CAA.004	$\mu\text{g/l}$	---	---	---	B, 10, e			
<b>1,2 Dicloroetano</b>	< 0.2	---	---	---	---	3.0	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	0.7 <sup>u</sup>	0.7 <sup>u</sup>	0.3	B, e, u			
<b>Epichelidina</b>	< 0.1	----	----	----	----	0.10	ISS XAA.011	$\mu\text{g/l}$	---	---	---	B, 10, e			
<b>Composti Organo Alogenati previsti dal metodo EPA 8032A - 624</b>															
<b>Dichlorodifluorometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>Clorometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>Cloruro di vinile</b>	< 0.2	---	---	---	---	0,5	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	---	---	---	B, 15, e			
<b>Cloroetano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>bromometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>Triclorofluorometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>1,1-Dicloroetene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>Cloruro di metile</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>trans-1,2-dicloroetene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>1,1-dicloroetano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>2,2-dicloropropano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>cis-1,2-dicloroetene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>bromoclorometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>cloroformio</b>	< 0.2	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	10	B, 15, e, b			
<b>1,1,1-tricloroetano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>1,1-dicloropropene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>tetracloruro di carbonio</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>1,2-dicloroetano</b>	< 0.2	---	---	---	---	3, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	10	B, e, a			
<b>tricloroetene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	10	B, 15, e, a			
<b>1,2-dicloropropano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>Dibromometano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>bromodichlorometano</b>	< 0.2	---	---	---	---	30, $\beta$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	10	B, 15, e, b			
<b>trans-1,3-dicloropropene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>cis-1,3-dicloropropene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>1,1,2-tricloroetano</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	25	B, 15, e, a			
<b>tetracloroetene</b>	< 0.2	---	---	---	---	10, $\alpha$	ISS_CAA.036 ISS_CAA.004	$\mu\text{g/l}$	25	25	10	B, 15, e, a			

RISULTATI ANALISI												
Analisi richieste	Campioni					Valori di parametro Dlgs 31/01	Metodo d'analisi di riferimento	unità di misura	Esattezza	Precisione	Limite di rilevabilità	Note
	17F022	/	/	/	/							
<b>1,3-dicloropropane</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>dibromoclorometano</b>	0.3	---	---	---	---	30, <b>β</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	10	B, 15, e
<b>1,2-dibromoetano</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>1,1,1,2-tetracloroetano</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>bromoformio</b>	0.6	---	---	---	---	30, <b>β</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	10	B, 15, e, b
<b>1,1,2,2-tetracloroetano</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>1,2,3-tricloropropane</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>1,2-dibromo-3-cloropropano</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>esaclorobutadiene</b>	< 0.2	---	---	---	---	10, <b>α</b>	ISS_CAA.036 ISS_CAA.004	µg/l	25	25	25	B, 15, e, a
<b>Composti e/o gruppi specifici - Non Previsti dal dlgs 31/01</b>												
<b>Olii minerali - Idrocarburi disciolti o emulsionati:</b>	< 1	---	---	---	---	10	---	µg/l	---	---	---	18
<b>PARAMETRI MICROBIOLOGICI</b>												
<b>Batteri coliformi a 37°C</b>	Ass	---	---	---	---	0	ISS A 006 B rev. 00	CFU/100 ml	---	---	---	C
<b>Clostridium perfringens comprese spore</b>	Ass	---	---	---	---	0 <sup>6</sup>	ISS A 005 A rev. 00	CFU/100 ml	---	---	---	C, 6, d
<b>Computo colonie a 37 °C</b>	Ass	---	---	---	---	---	ISS A 004 A rev. 00	CFU/ml	---	---	---	---
<b>Conteggio colonie a 22 °C</b>	Ass	---	---	---	---	... <sup>1</sup>	ISS A 004 A rev. 00	CFU/ml	---	---	---	C, 1
<b>Enterococchi</b>	Ass	---	---	---	---	0	ISS A 002 A rev. 00	CFU/100 ml	---	---	---	A
<b>Escherichia coli</b>	Ass	---	---	---	---	0	ISS A 001 B rev. 00	CFU/100 ml	---	---	---	A
<b>Pseudomonas Aeruginosa</b>	Ass	---	---	---	---	0	ISS A 003 A UNI EN 12780:2002	CFU/250 ml	---	---	---	A, 19

**Note**

**SM:** Metodi riportati in Standard Methods

**ISS:** Metodi indicati dall'Istituto Superiore di Sanità, riportati nei Rapporti ISTISAN ( Rapporto 07/31).

Le caratteristiche di prestazione del metodo (esattezza, precisione, ecc) sono calcolate sul valore unitario (riportate in corsivo) o al valore di parametro ed indicate in % dello specifico parametro (si veda ISS).

U: il valore è espresso nelle unità di misura del relativo parametro

\* valori consigliati: il limite inferiore vale per acque sottoposte a trattamento di addolcimento o dissalazione

\*\* valore massimo consigliato

\*\*\* valore consigliato se impiegato

A voce inserita nell'allegato I, Parte A

B voce inserita nell'allegato I, Parte B

C voce inserita nell'allegato I, Parte C

**α** Inserito nella somma dei composti organo alogenati;

**β** Inserito nella somma dei trialometani;

**1**=accettabile per il consumatore senza variazioni anomale

**2**=valore applicabile per acque provenienti da impianti di trattamento

**3**=L'acqua non deve essere aggressiva

**4**=Se si analizza il TOC non è necessario questo parametro

**5**=Non è necessario questo parametro per approvvigionamenti inferiori a 10.000 m3 al giorno

**6**=Tale parametro non deve essere misurato a meno che le acque provengano o siano influenzate da acque superficiali

**7**=  $([\text{nitrato}]/50 + [\text{nitrito}]/0,5(0,1)) < 1$ , dove il valore 0,1, per i nitriti, vale per acque provenienti da impianti di trattamento

**8**= il valore si riferisce ad un campione d'acqua destinata al consumo umano ottenuto dal rubinetto seguendo un metodo di campionamento standardizzato



RISULTATI ANALISI						Valori di parametro Digs 31/01	Metodo d'analisi di riferimento	unità di misura	Esattezza	Precisione	Limite di rilevabilità	Note
Analisi richieste	Campioni											
	17F022	/	/	/	/							

9= valore di parametro nel periodo compreso tra il 25 dicembre 2003 ed il 25 dicembre 2013

10= valore di parametro riferito alla concentrazione monomerica residua nell'acqua calcolata secondo le specifiche di rilascio massimo del polimero a contatto con l'acqua.

11= valore di parametro nel periodo compreso tra il 25 dicembre 2003 ed il 25 dicembre 2008

12= controllo degli antiparassitari che hanno maggiore probabilità di essere trovati

13= il valore di parametro dell' Aldrina, dieldrina, eptacloro, ed eptacloro epossido è pari a 0.030 µg/l

14= somma dei singoli antiparassitari rilevati e quantificati nella procedura di controllo

15= somma delle concentrazioni dei parametri specifici

16= valore fissato dal DM 05/09/06

17= il valore minimo, per acque non frizzanti confezionate in bottiglie, può essere ridotto a 4,5 unità di pH. Acque confezionate in bottiglie, contenenti CO<sub>2</sub>, il pH minimo può essere minore.

18= parametro o valore limite fissato dal DPR 236/88.

19= parametro previsto per le acque messe in vendita in bottiglia.

S1= le specifiche di prestazione si applicano alle sostanze specificate al 25% del valore parametrico.

S2= le specifiche di prestazione si applicano alle sostanze specificate al 25% del valore parametrico.

a = Cromatografia ionica per cationi con soppressione chimica - Dionex;

b = Metodo analitico proposto in "INTERNATIONAL STANDARD ISO, Ed. 1986";

c = Metodo analitico proposto in "OFFICIAL METHODS OF ANALYSIS, 15th. Ed., 1990 - AOAC";

d = Metodi Analitici per le Acque - IRSA - CNR - Quaderni, 100, Ed. 1994 -2.

e = Metodi Analitici proposti da EPA -SW-846 dicembre 1997.

**DESCRIZIONE DEL METODO ANALITICO:** Le determinazioni sono state effettuate in accordo ai metodi indicati, ovvero a metodi equivalenti proposti in

**ISS:** Rapporti Istisan 07/31 - Metodi analitici di riferimento per le acque destinate al consumo umano ai sensi del DL.vo 31/01 - Metodi chimici - Ed. ISS 2007.

**ISS:** Rapporti Istisan 07/5 - Metodi analitici di riferimento per le acque destinate al consumo umano ai sensi del DL.vo 31/01 - Metodi Microbiologici - Ed. ISS 2007.

**SM:** "STANDARD METHODS for the examination of water and wastewater, 2005, 21th. Ed., APHA, AWWA, WEF".

Metodi analitici per le acque - APAT - IRSA - CNR - ed. 2003, che permettono di ottenere identici risultati.

Nel caso in cui è stata seguita una differente procedura analitica viene riportato il riferimento bibliografico o il principio del metodo interno d'analisi impiegato (M.I.A.).

#### CONSIDERAZIONI E PARERE


**Tutti i risultati delle analisi effettuate sono conformi ai limiti di legge. Le analisi non evidenziano fenomeni, attribuibili alla rete di distribuzione comunale, che possano modificare le caratteristiche dell'acqua erogata.**

Analisi eseguite nel laboratorio interno, certificato ISO 9001:2008.

Il Laboratorio opera nel rispetto dei principi indicati dalla norma UNI CEI EN ISO/IEC 17025:2005.

Il certificato è rilasciato dal professionista responsabile, dr. chim. Giuseppe Riccio, ai sensi del R.D. 1/3/1928 n. 842, della legge 19/07/1957 n. 679 e successive modificazioni.

Il certificato è conforme all'art. 16 del R.D. 1/3/1928 n. 842 ed all' articolo 36 del DPR 328/2001.

  
 responsabile  
 Dr. Chim. Giuseppe Riccio