



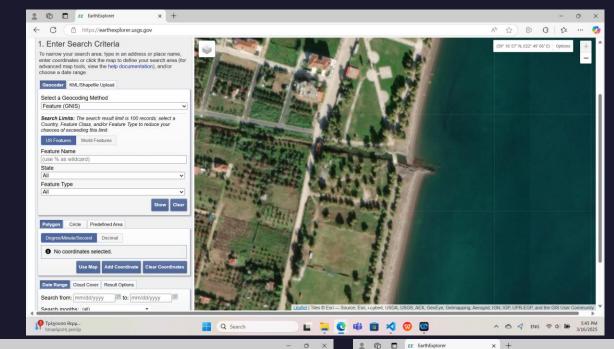
Quality of water

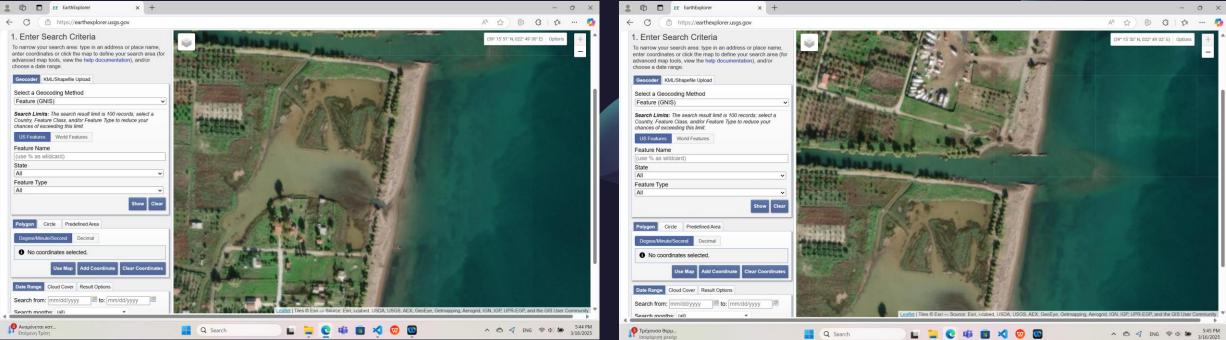
in Nea Anchialos

SECONDARY SCHOOL NEA ANCHIALOS



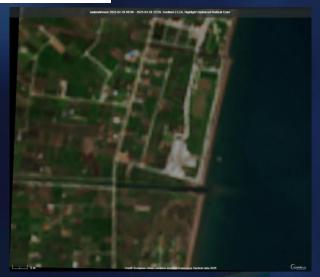
Nea Anchialos, Magnesia Greece







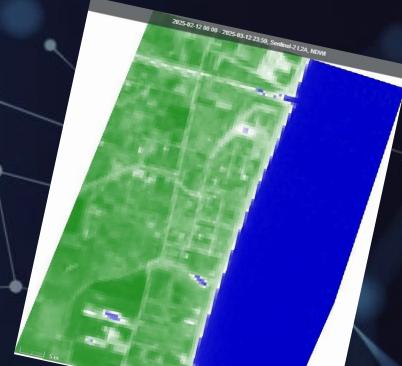












COPERNICUS BROWSER WATER BODIES
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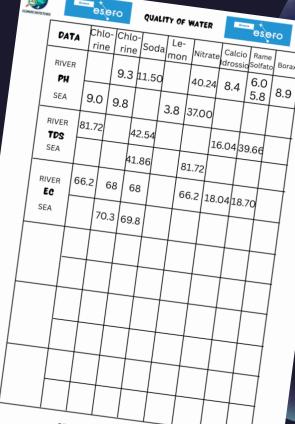


Measuring Data



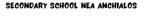
CLIMATE DETECTIVES	Greece	eserc	0	QUALIT	Y OF W	ATER	esero			
	DATA									
	RIVER	7.5	7.7	7.6	7.5	7.8	7.5	7.6		

DATA								
RIVER PH SEA	7.5	7.7	7.6	7.5	7.8	7.5	7.6	
	8.0	7.9	7.8	7.8	8.0	7.85	7.7	
RIVER TDS SEA	20.88	21.65	21.71	21.27	38.16	33.60	30.0	
	46.52	24.03	24.03	23.36	43.68	32.40	31.5	
RIVER EC SEA	41.76	26.9	42.34	38.16	48.62	45.0	43.2	
	23.36	23.12	43.42	41.0	40.5	39.0	38.5	
RIVER TEMPE- RATURE SEA	0.5	0.52	0.5	0.66	0.6	0.59		
	0.55							
RIVER TURBI-	0.3	0.29	0.7	0.3	2.9	0.5	0.6	
DITY SEA	0.3							











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Water Filtration

The water from the two streams and the wetland is filtered using a **simple yet effective natural filtration system**. The process involves the following steps:

- **1.Collection** Water is collected from the streams and the wetland for purification.
- **2.Filtration Setup** A **plastic bottle** is used as a filtration container, with multiple layers acting as a natural filter.

3.Filter Layers:

- Coarse Sand and Small Pebbles (collected from the beach) – These help remove larger debris and sediments.
- **2.** Coffee Filters Act as an additional fine filter, trapping smaller particles.
- **3.Slow Filtration** Water is poured through the system, where each layer removes different types of contaminants.
- This method mimics natural filtration in wetlands and riverbeds, demonstrating how ecosystems naturally purify water before it reaches larger bodies.

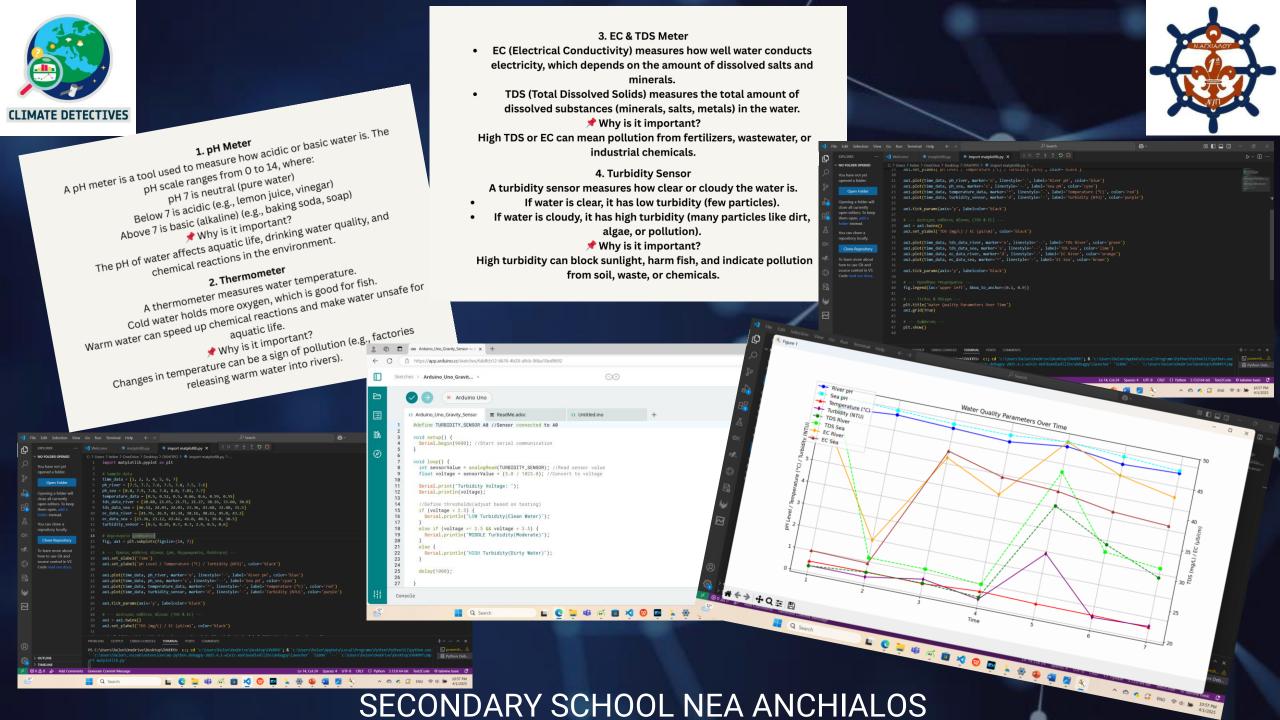








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Conclusion

Clean river and seawater maintain normal pH, TDS, conductivity, and turbidity values. However, measurements indicate that the addition of substances such as chlorine, nitrates, and soda leads to significant chemical pollution, causing an increase in pH, TDS, and conductivity.

✓ If no additional chemicals are present, the water quality remains good.

⚠ If high values are due to contamination, there is a serious risk to both the environment and human health.

An increase in turbidity was observed in one measurement, which may indicate pollution or environmental changes at the sampling location.

✓ If the turbidity increase was a brief fluctuation, it may be part of natural variability.

⚠ If high turbidity levels persist, further investigation is needed to identify potential sources of pollution, which could include bacterial growth or toxic substances.



Thank you

Helen Mastropetrou & Pelagia Triantafillopoulou