

CFA VEMTC WMS

Quarterly Performance Report

Calendar Quarter One 2022 - 01/01/2022 - 31/03/2022

Report Issue Date - 15/04/2022

The Water Management System (WMS) at each Victorian Emergency Management Training Centre (VEMTC) is designed to produce water for training, in line with a Specification which ensures the water is better than the minimum requirements of the Australian Drinking Water Guidelines.

Water samples taken from two sampling locations at each VEMTC are sent for analysis at a NATA accredited laboratory. This report summarises the sampling results and their conformance to the Specification for the past quarter.

WTP1 - Penshurst Water Quality Summary		
Sample Date	Treated Water Tank Outlet	Hydrants
20/01/2022	All results within Specification	11 of 11 hydrants within Specification
03/02/2022	All results within Specification	Legionella detection - Hydrant 01 All other hydrants within Specification
15/02/2022	All results within Specification	11 of 11 hydrants within Specification
01/03/2022	All results within Specification	Hydrants not sampled (*)
16/03/2022	All results within Specification	11 of 11 hydrants within Specification (*)
31/03/2022	All results within Specification	High TDS of 1000 mg/L in Hydrant 06 (*) All other Hydrants within Specification (*)

WTP1 - Penshurst Results Discussion

Legionella was detected at a concentration of 40 cfu/100mL in samples taken 03/02/2022. Hydrant 01 was identified as the source. The Legionella was cleared by flushing and increasing the chlorine residual concentration.

TDS was measured at 1000 mg/L (limit <1000 mg/L) in samples taken 31/03/2022 at Hydrant 06. The high TDS has not yet been cleared.

(*) The Penshurst hydrants were filled with town water for these samples. The untreated water basin level was too low for the WMS to run and produce water.



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WTP2 - Wangaratta Water Quality Summary		
Sample Date	Treated Water Tank Outlet	Hydrants
18/01/2022	All results within Specification	9 of 9 hydrants within Specification
01/02/2022	All results within Specification	9 of 9 hydrants within Specification
15/02/2022	All results within Specification	9 of 9 hydrants within Specification
01/03/2022	All results within Specification	9 of 9 hydrants within Specification
15/03/2022	All results within Specification	9 of 9 hydrants within Specification
29/03/2022	All results within Specification	9 of 9 hydrants within Specification

WTP2 - Wangaratta Results Discussion

Treated water tank outlet and all hydrants within Specification.



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WTP3 - Sunraysia Water Quality Summary		
Sample Date	Treated Water Tank Outlet	Hydrants
24/03/2022	All results within Specification	12 of 12 hydrants within Specification

WTP3 - Sunraysia Results Discussion

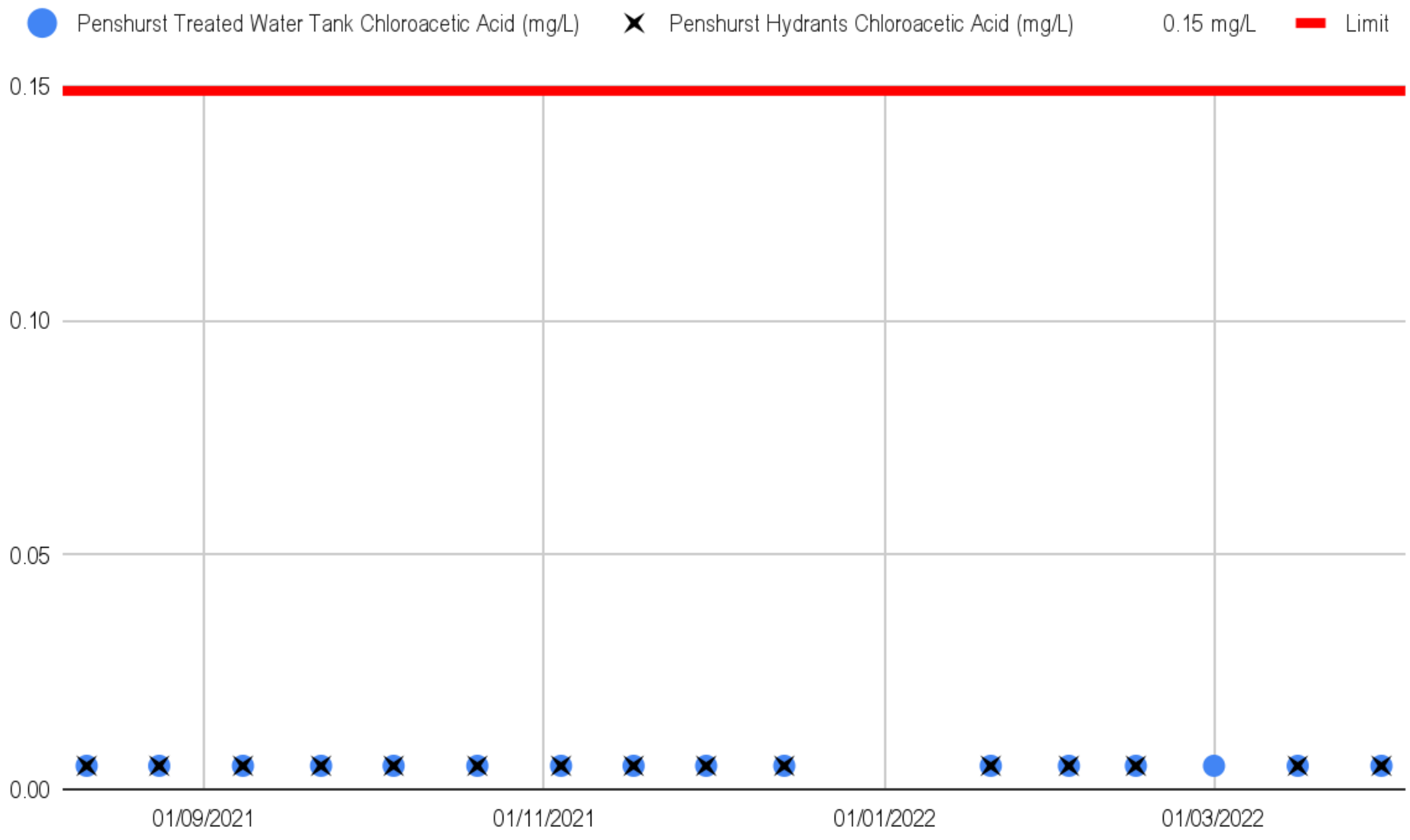
Treated water tank outlet and all hydrants within Specification.



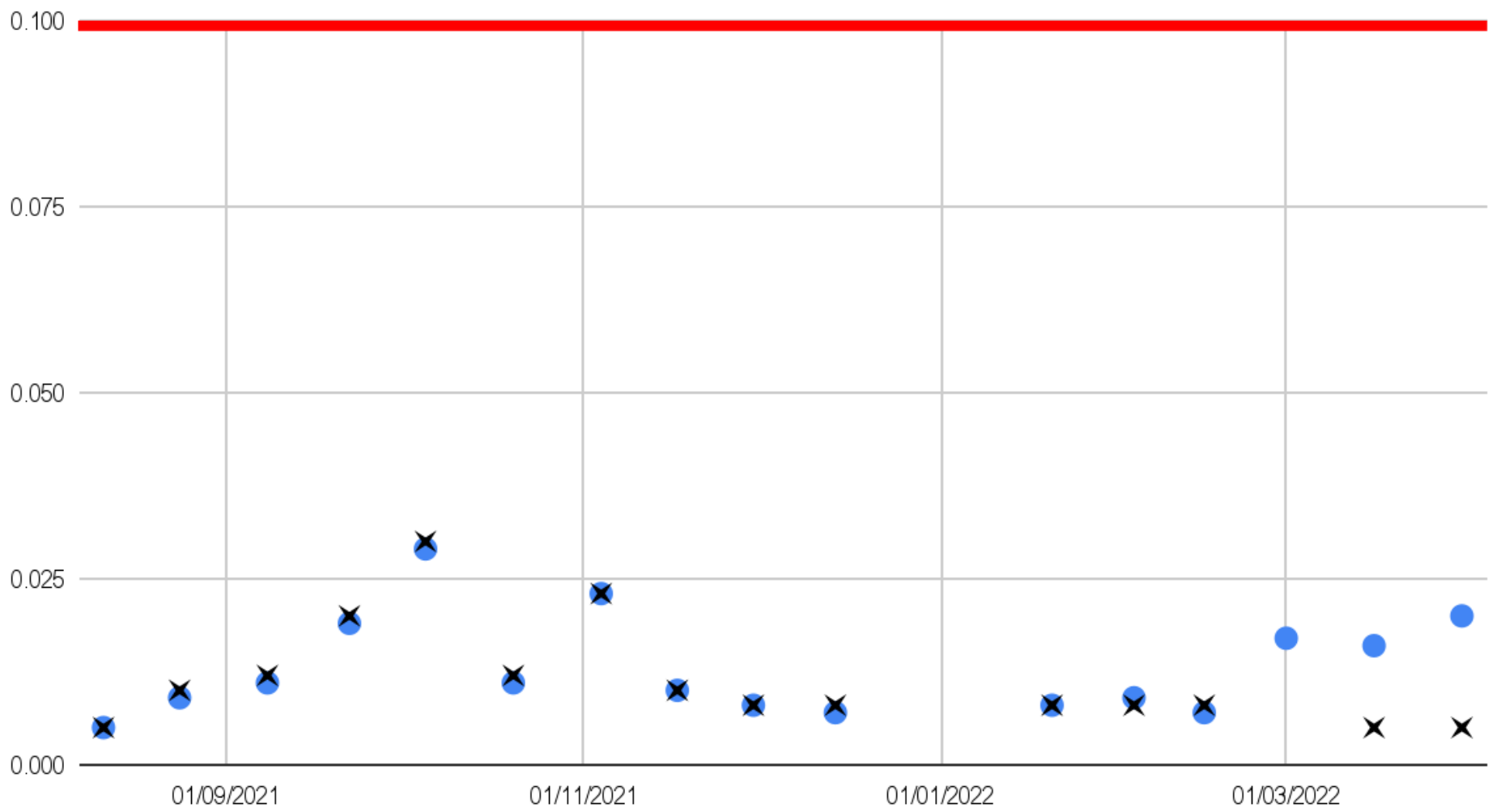
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Water Quality Charts

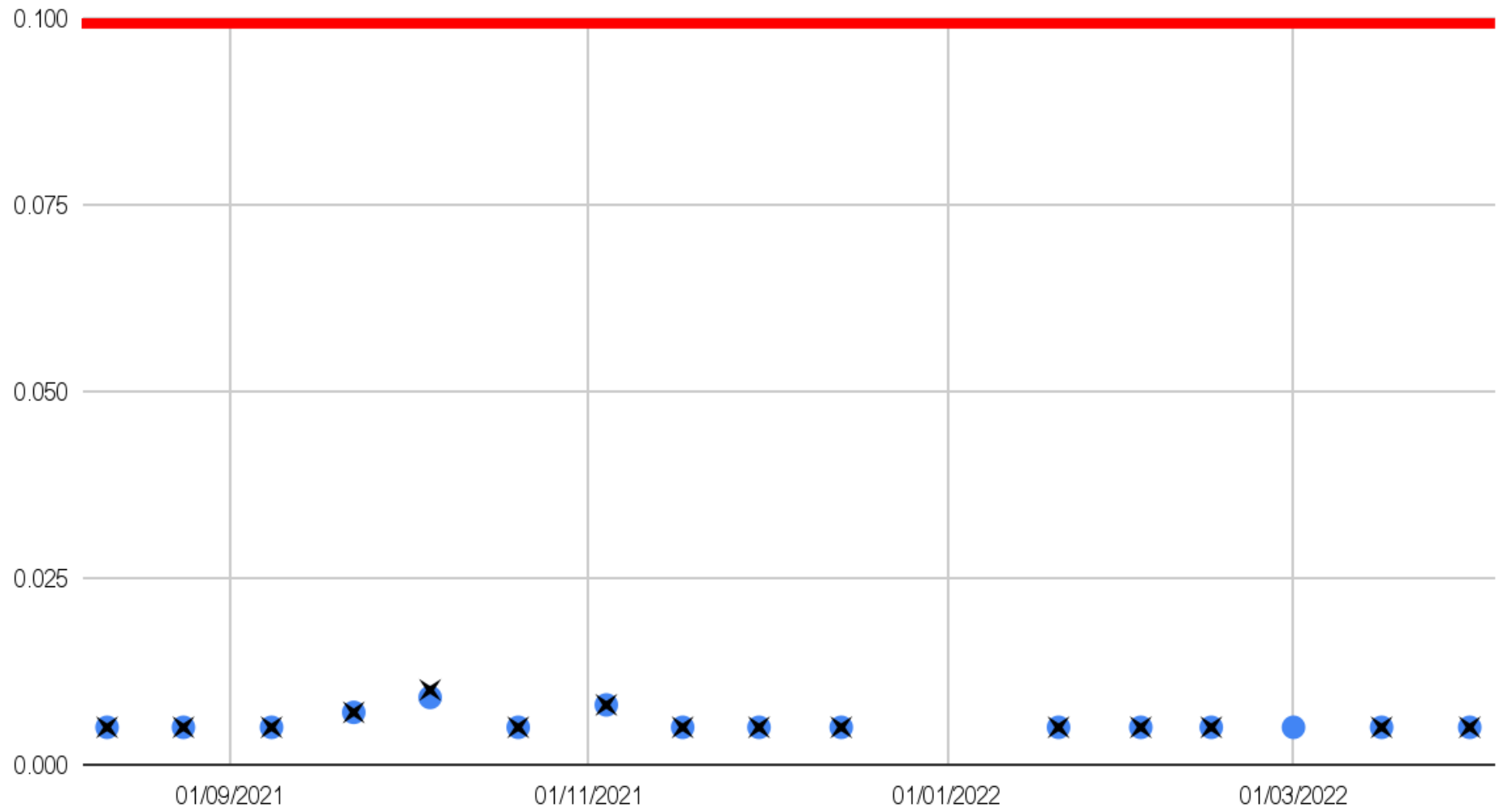
External Laboratory Results



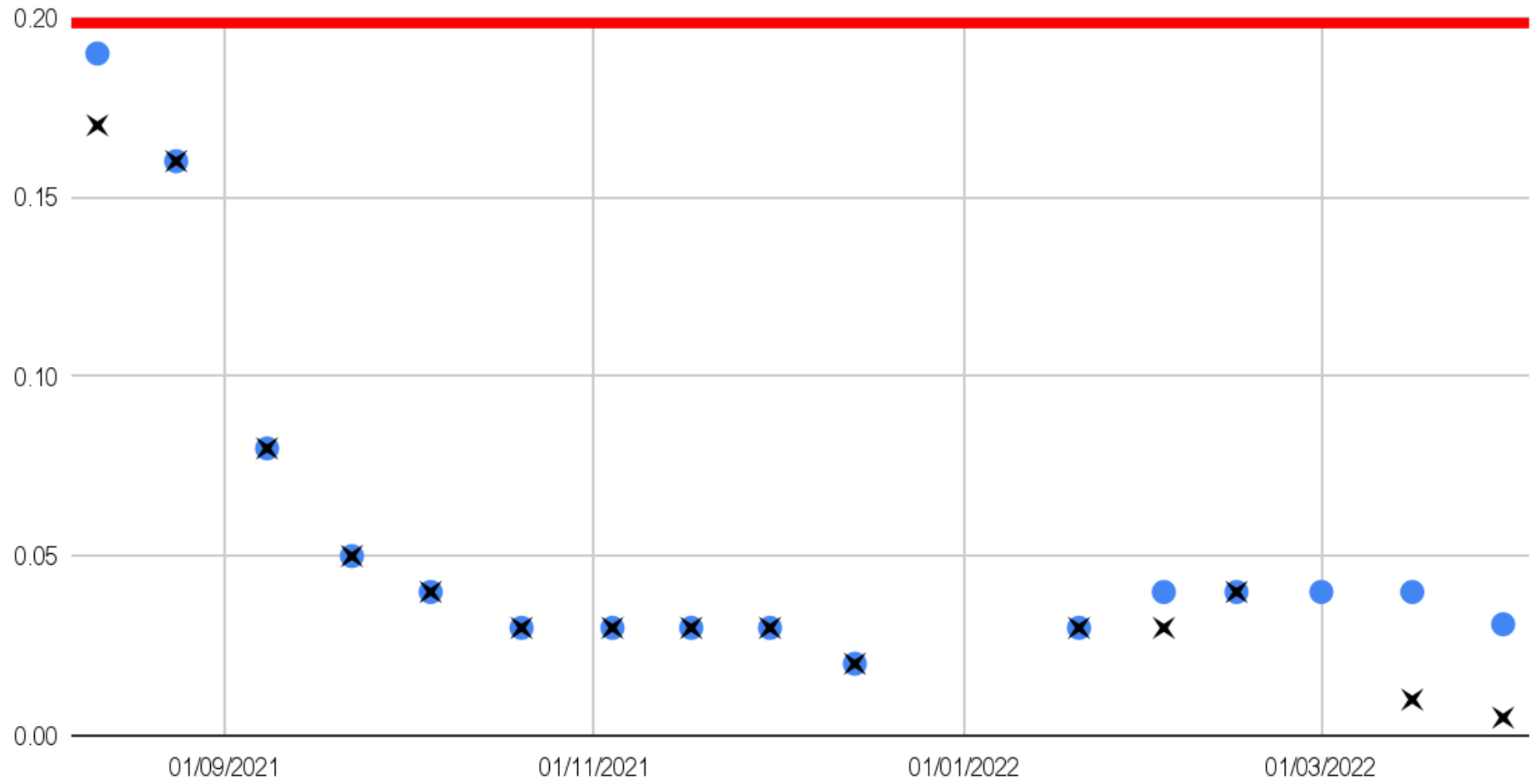
● Penshurst Treated Water Tank Dichloroacetic Acid (mg/L) ✕ Penshurst Hydrants Dichloroacetic Acid (mg/L) 0.1 mg/L — Limit

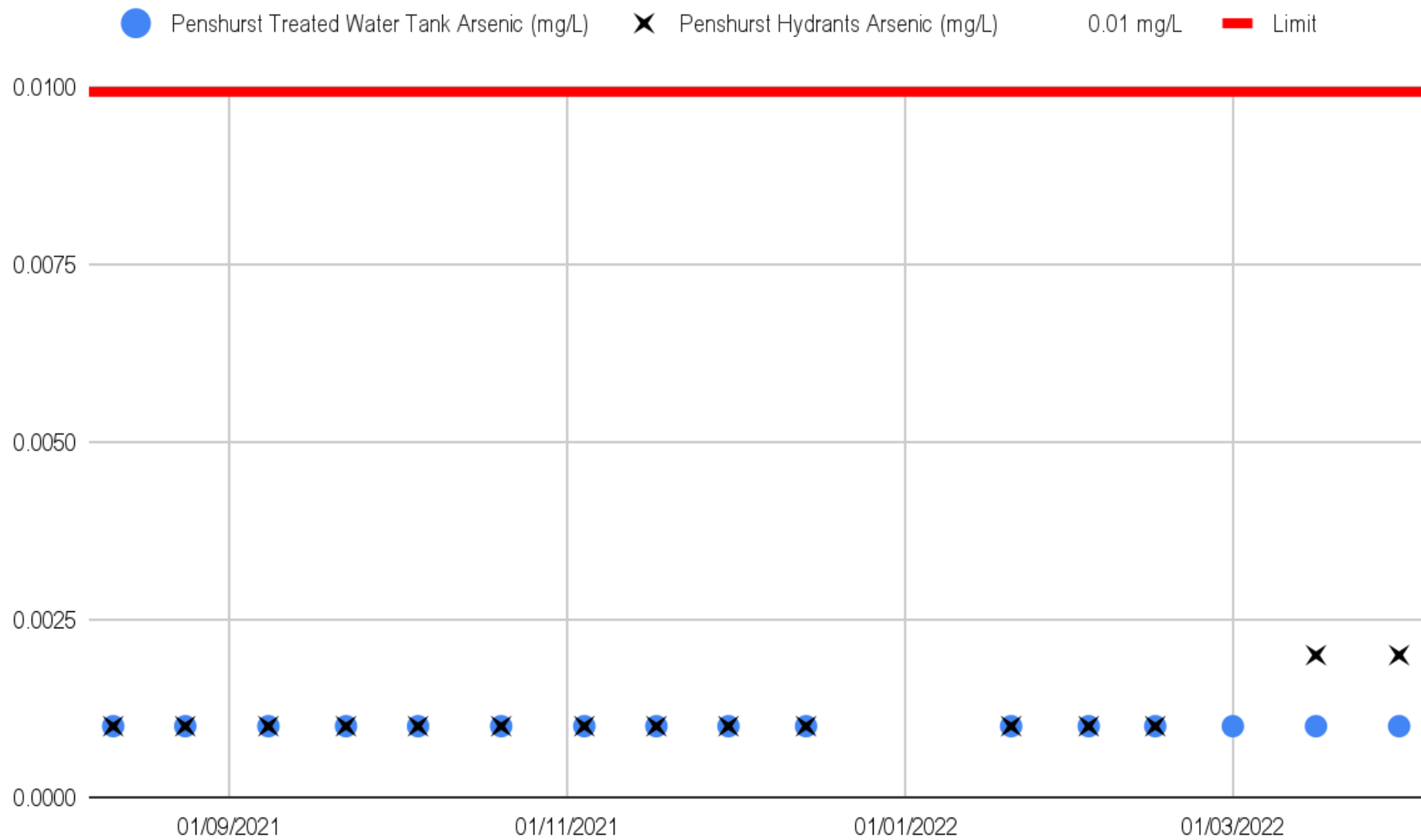


● Penshurst Treated Water Tank Trichloroacetic Acid (mg/L) ✕ Penshurst Hydrants Trichloroacetic Acid (mg/L) 0.1 mg/L — Limit

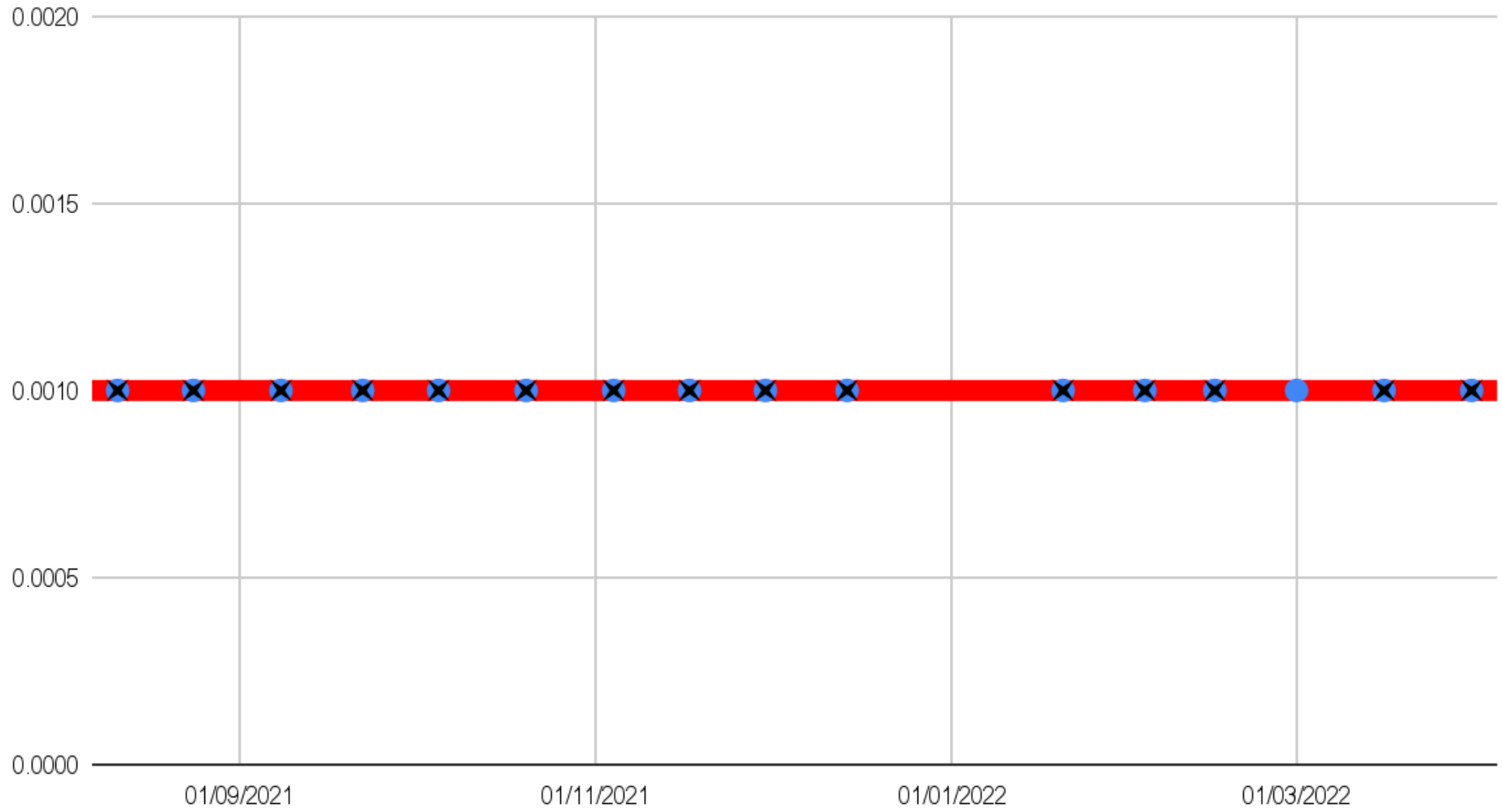


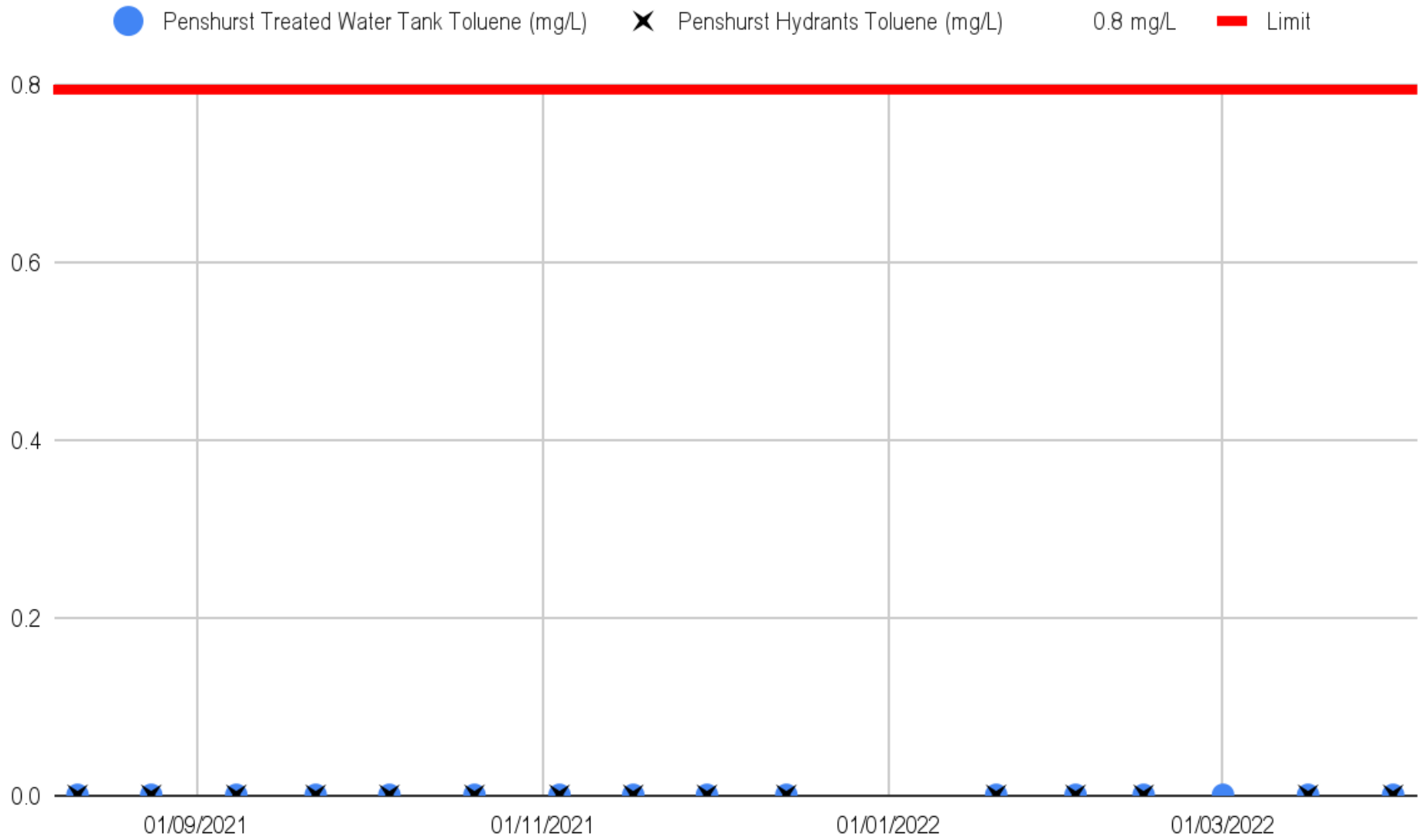
● Penshurst Treated Water Tank Acid Soluble Aluminium (mg/L) ✕ Penshurst Hydrants Acid Soluble Aluminium (mg/L) 0.2 mg/L
— Limit



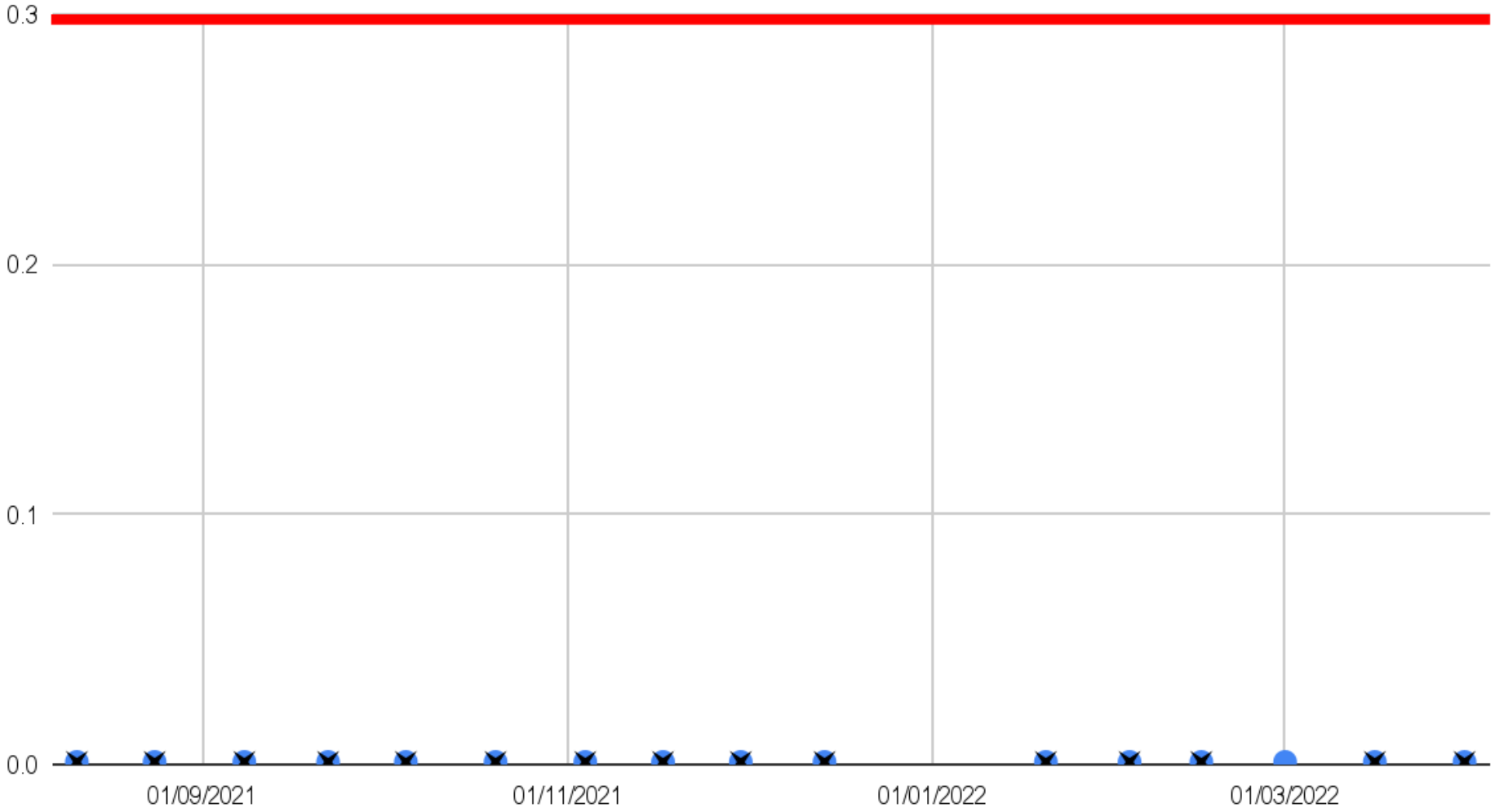


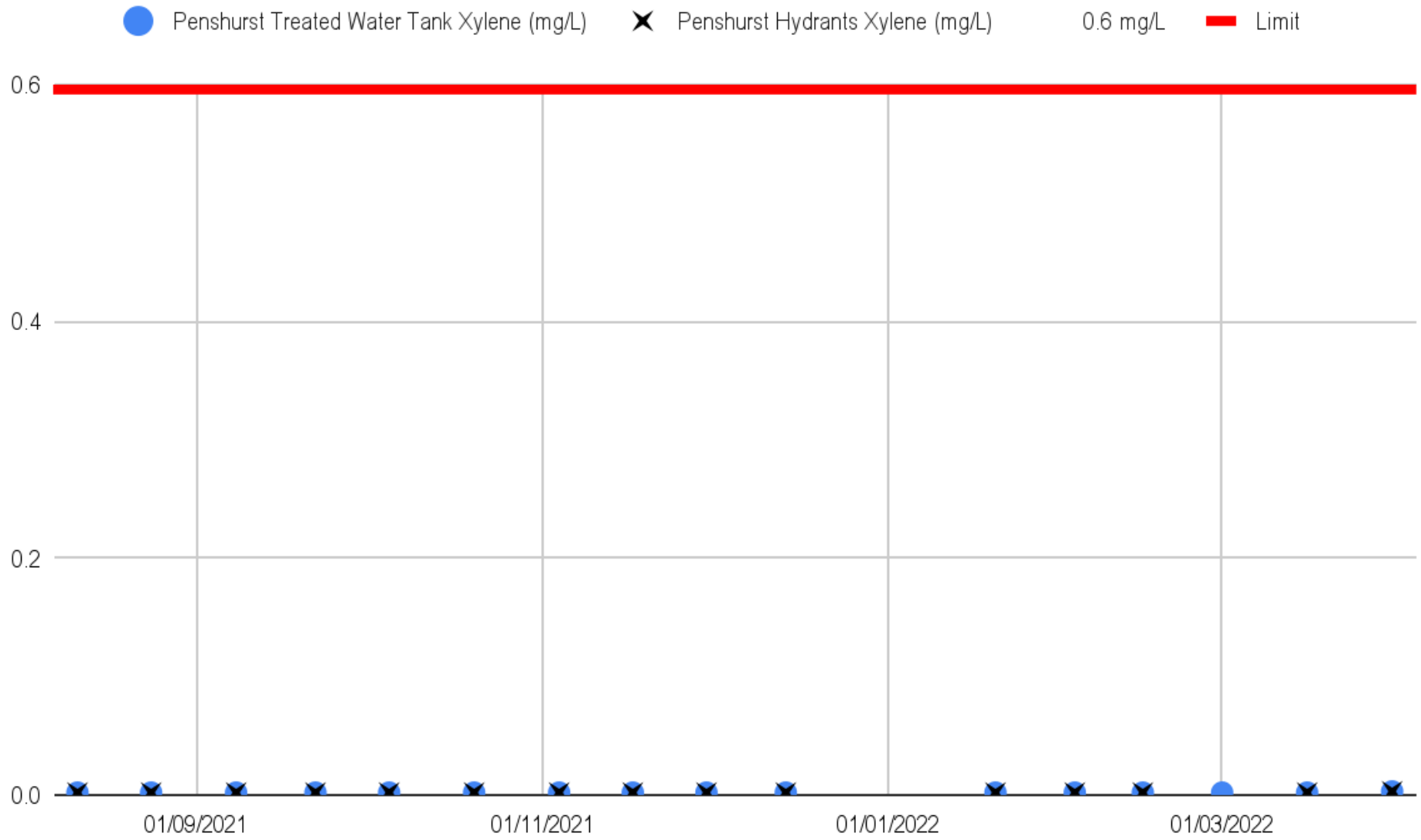
● Peshurst Treated Water Tank Benzene (mg/L) ✕ Peshurst Hydrants Benzene (mg/L) 0.001 mg/L — Limit



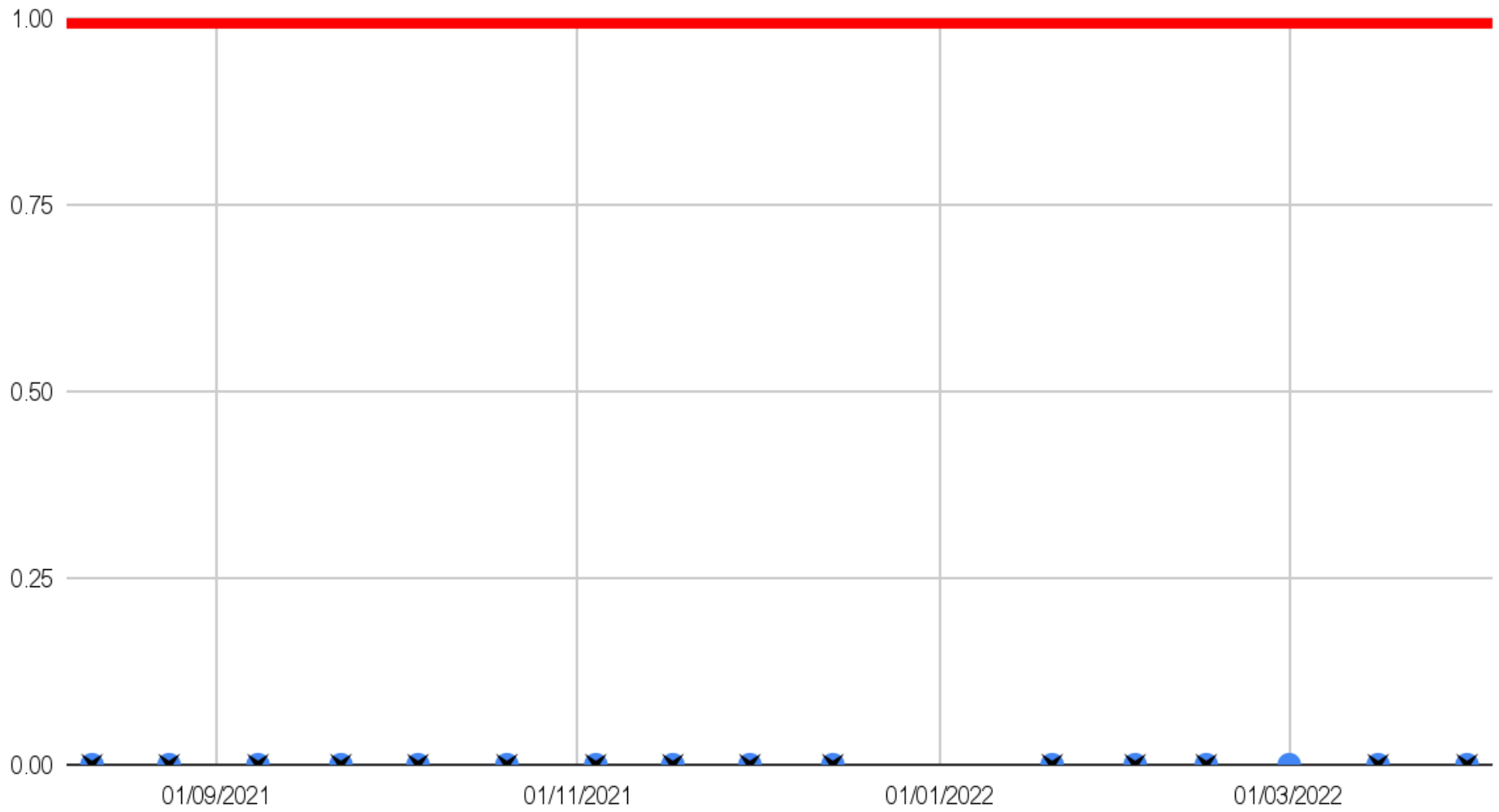


● Penshurst Treated Water Tank Ethylbenzene (mg/L) ✕ Penshurst Hydrants Ethylbenzene (mg/L) 0.3 mg/L — Limit

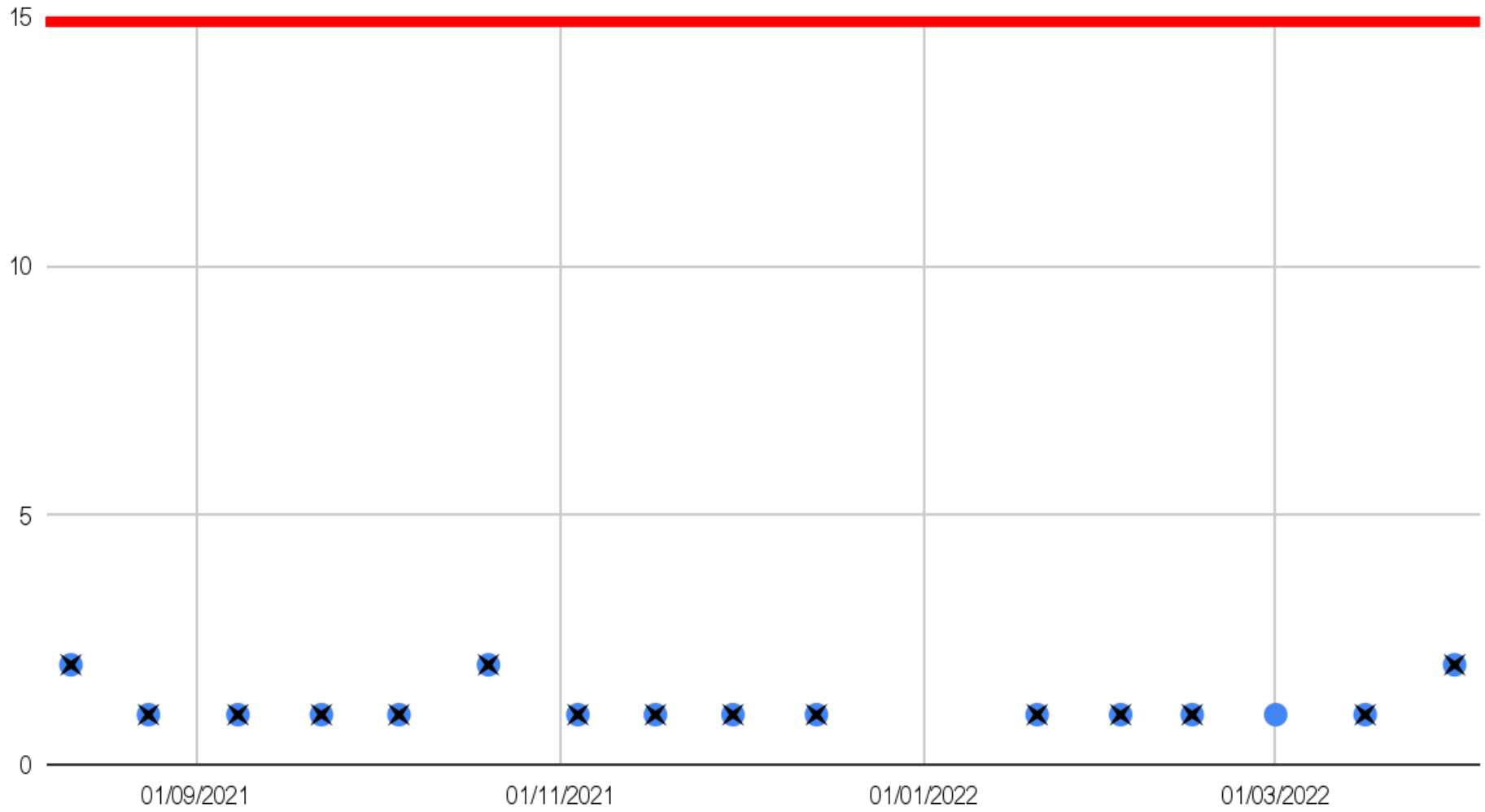


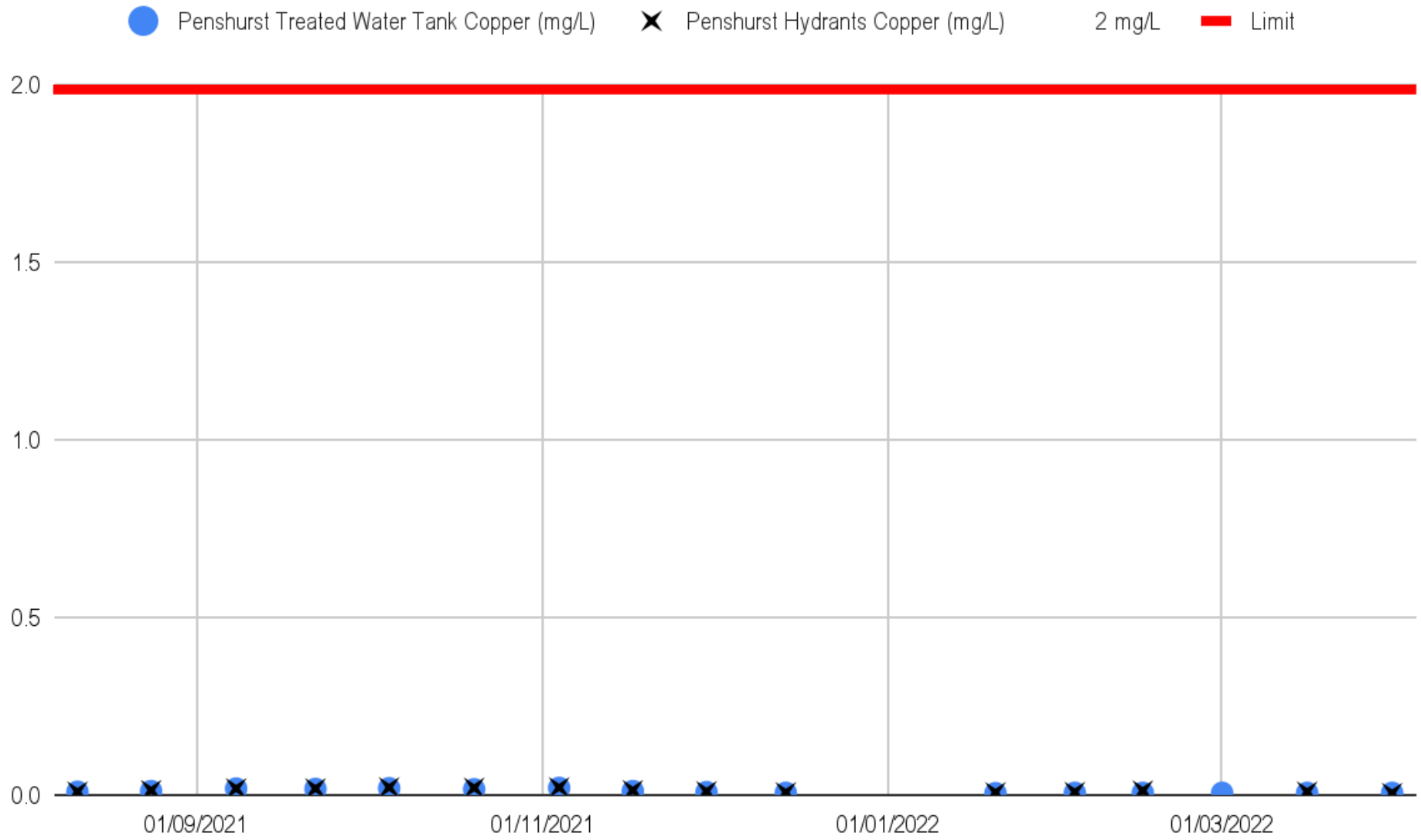


● Penshurst Treated Water Tank Coliforms (CFU/100mL) ✕ Penshurst Hydrants Coliforms (CFU/100mL) 1 cfu/100mL — Limit

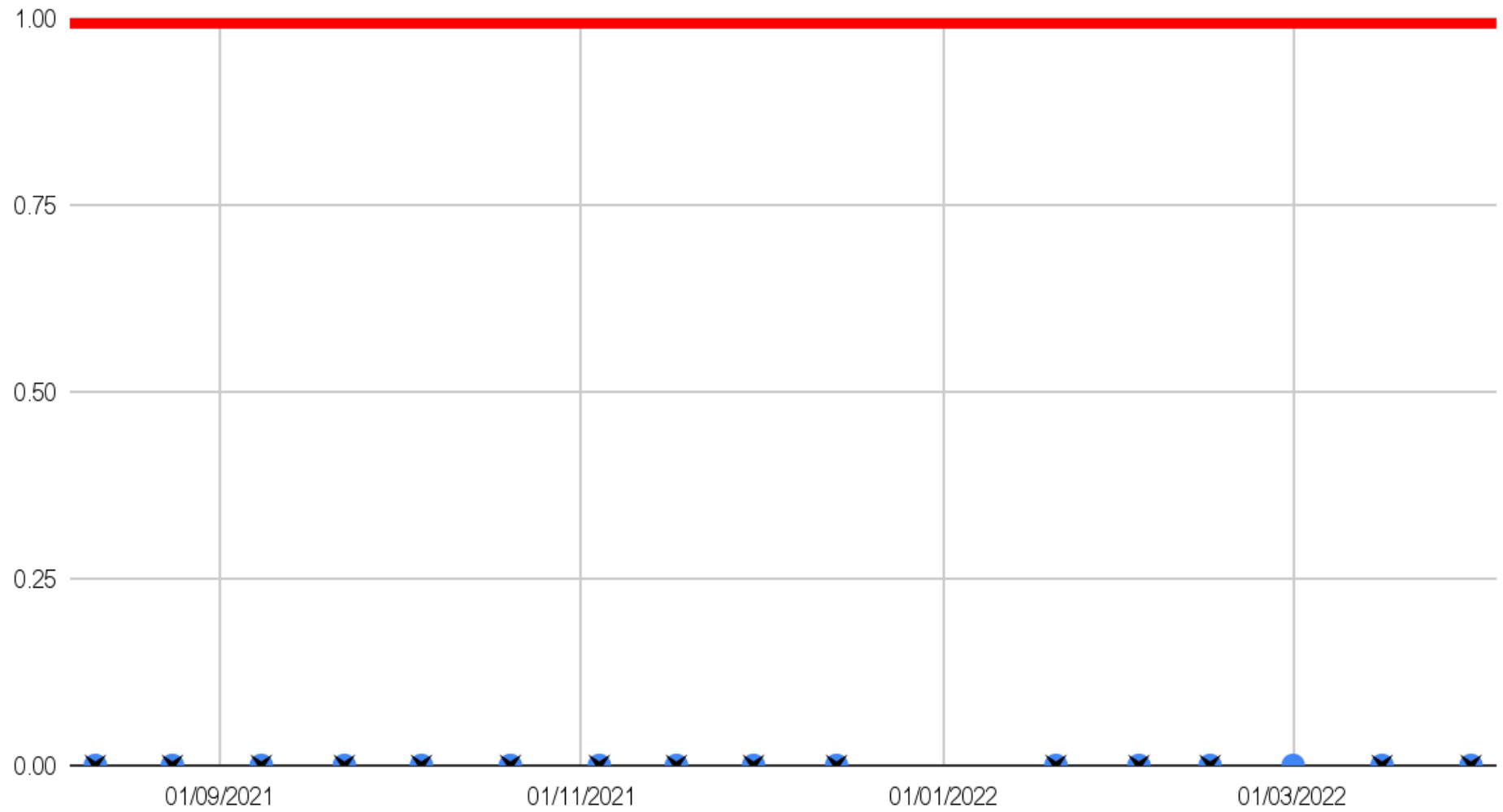


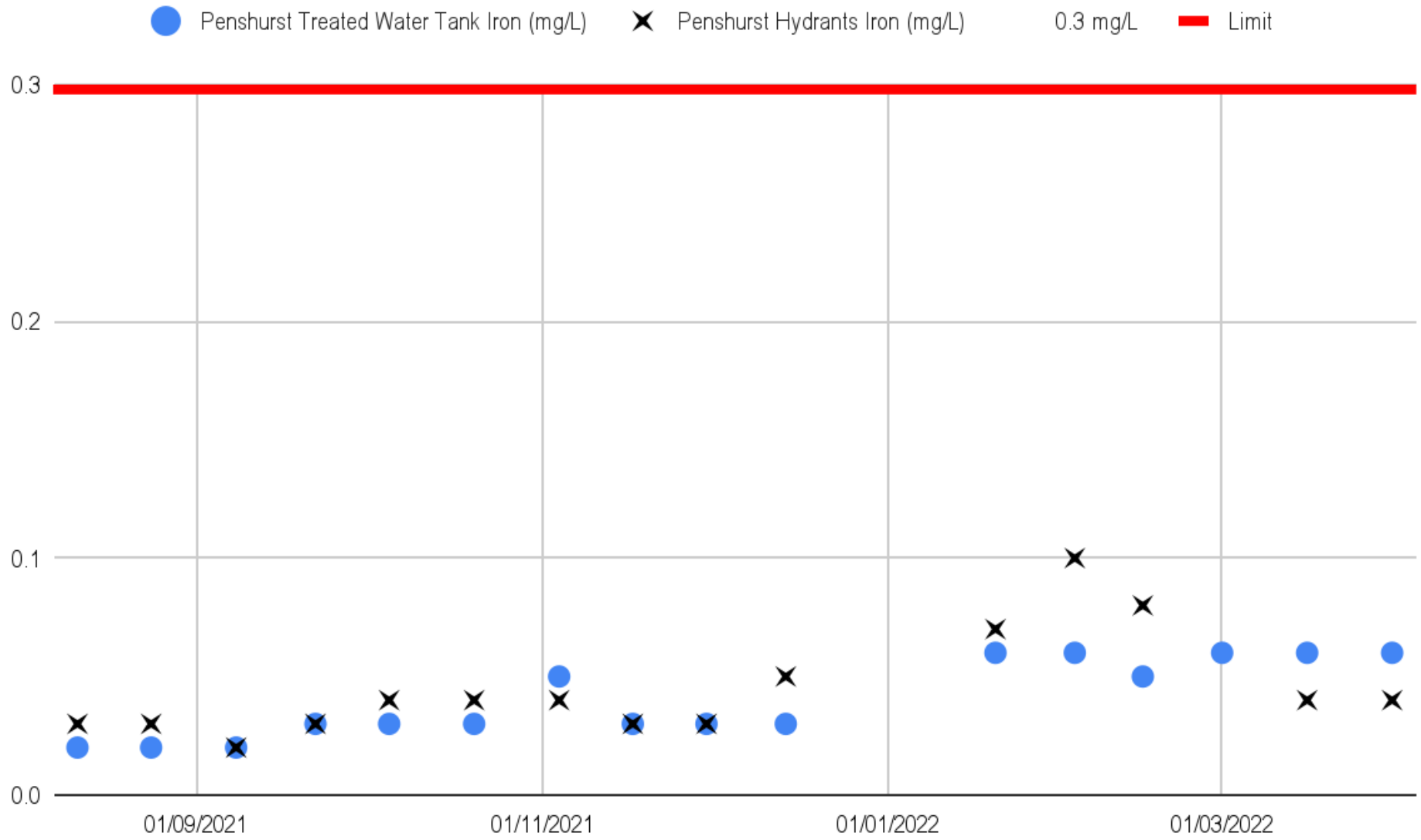
● Penshurst Treated Water Tank Colour (Pt/Co) ✕ Penshurst Hydrants Colour (Pt/Co) 15 Pt/Co — Limit



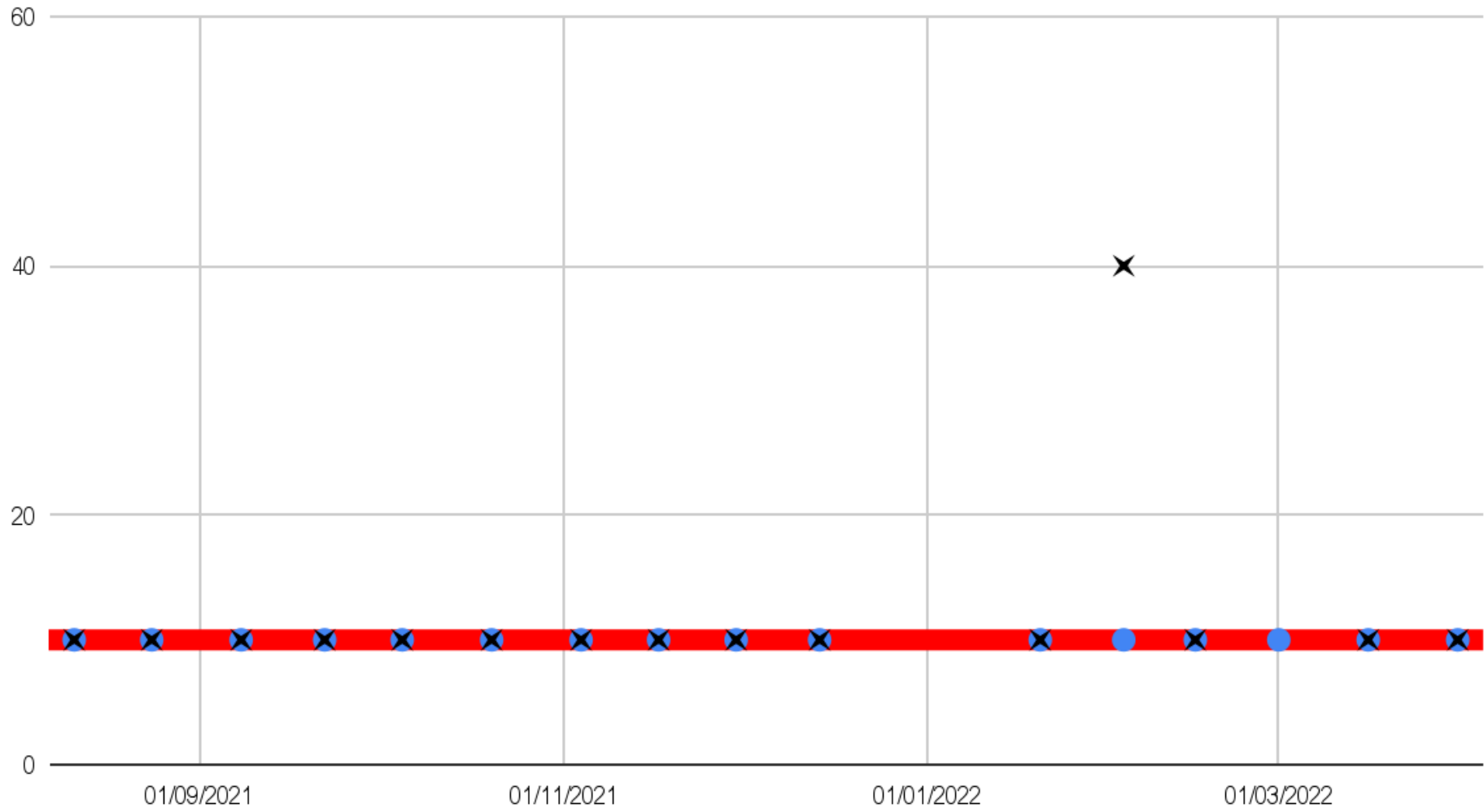


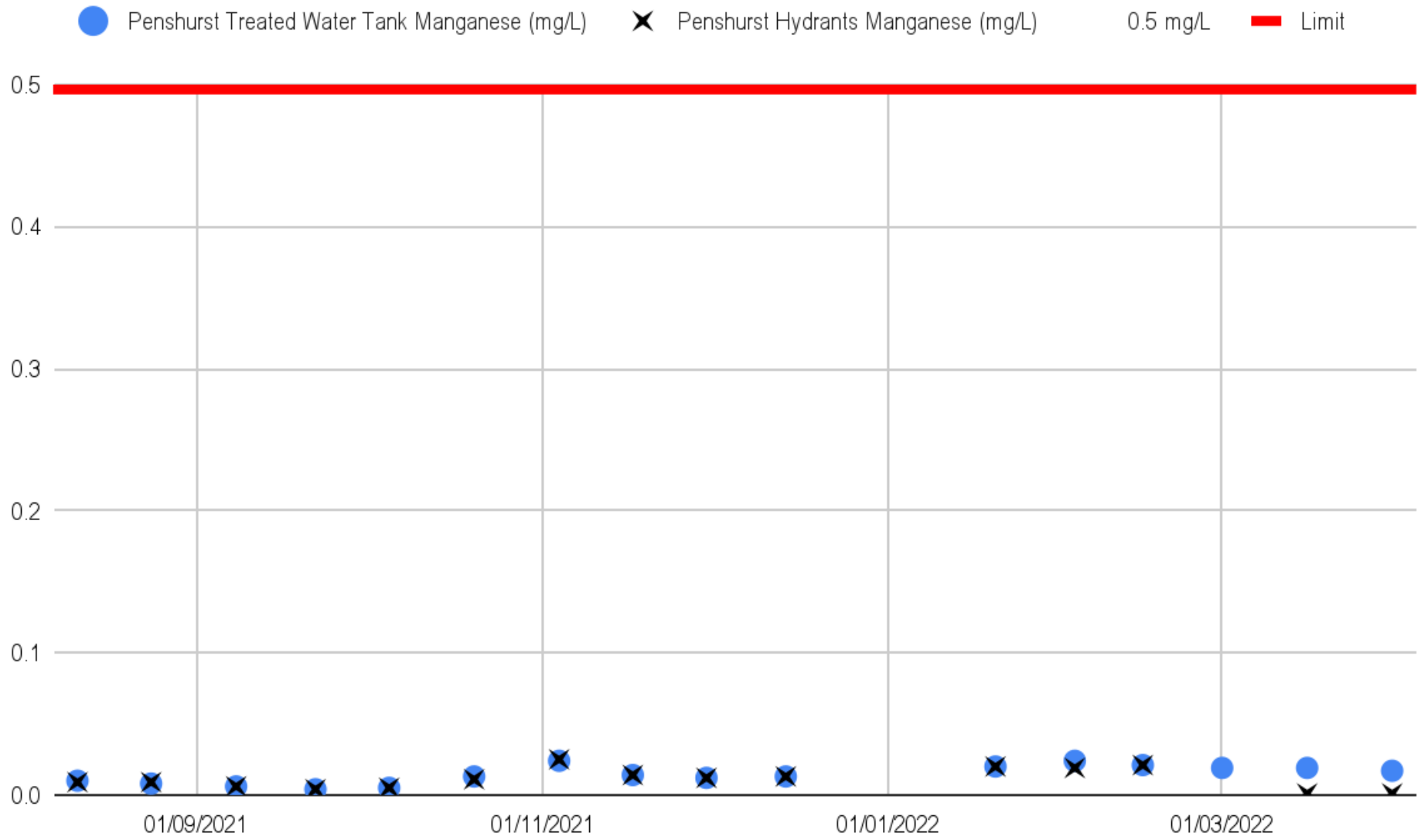
● Penshurst Treated Water Tank E.coli (CFU/100mL) ✕ Penshurst Hydrants E.coli (CFU/100mL) 1 cfu/100mL — Limit



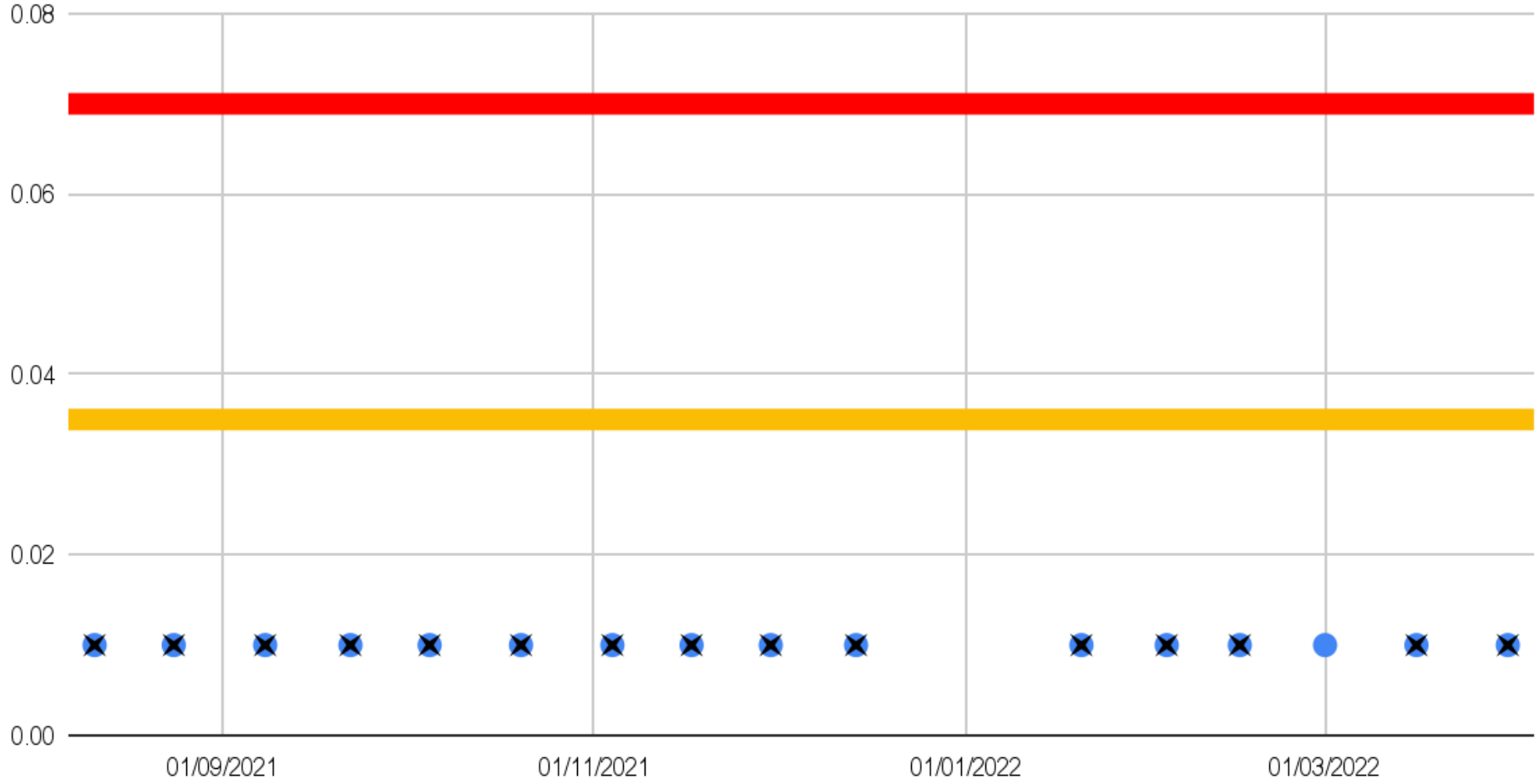


● Penshurst Treated Water Tank Legionella spp (CFU/mL) ✕ Penshurst Hydrants Legionella spp (CFU/mL) 10 cfu/mL ■ Limit

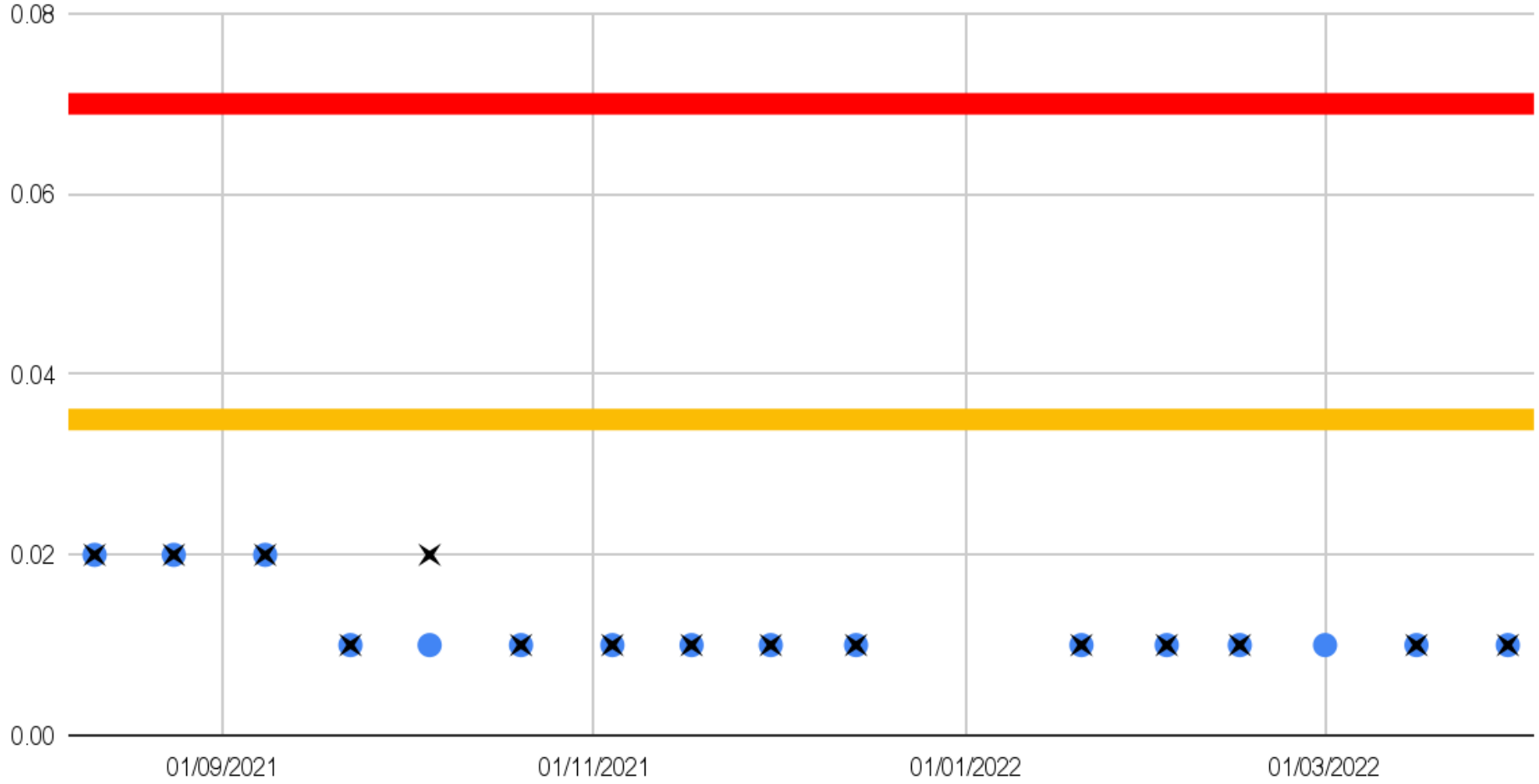




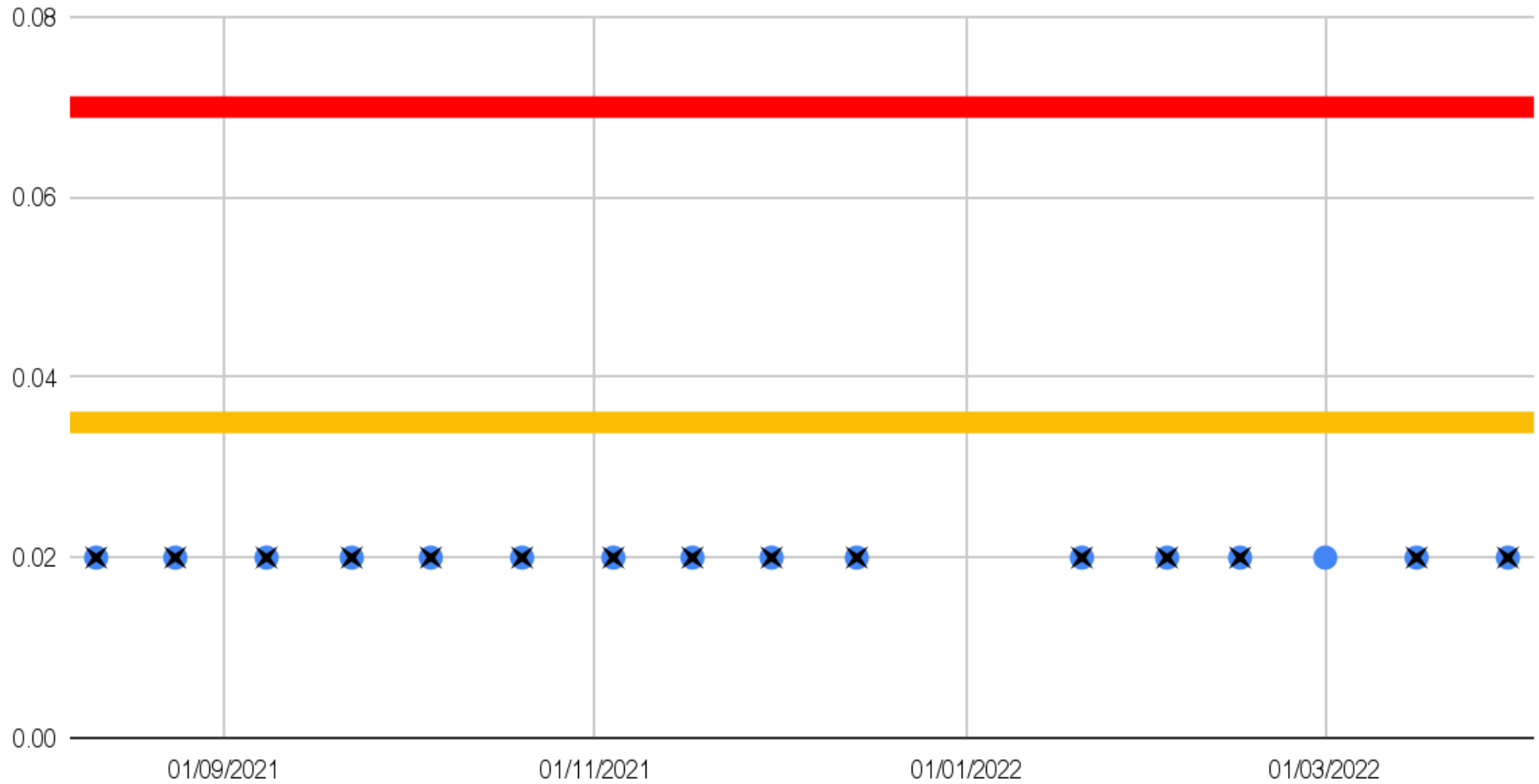
● Penshurst Treated Water Tank PFOA ($\mu\text{g/L}$) ✕ Penshurst Hydrants PFOA ($\mu\text{g/L}$) PFOA + PFOS $0.07 \mu\text{g/L}$ ■ Limit
PFOA $0.035 \mu\text{g/L}$ ■ Target



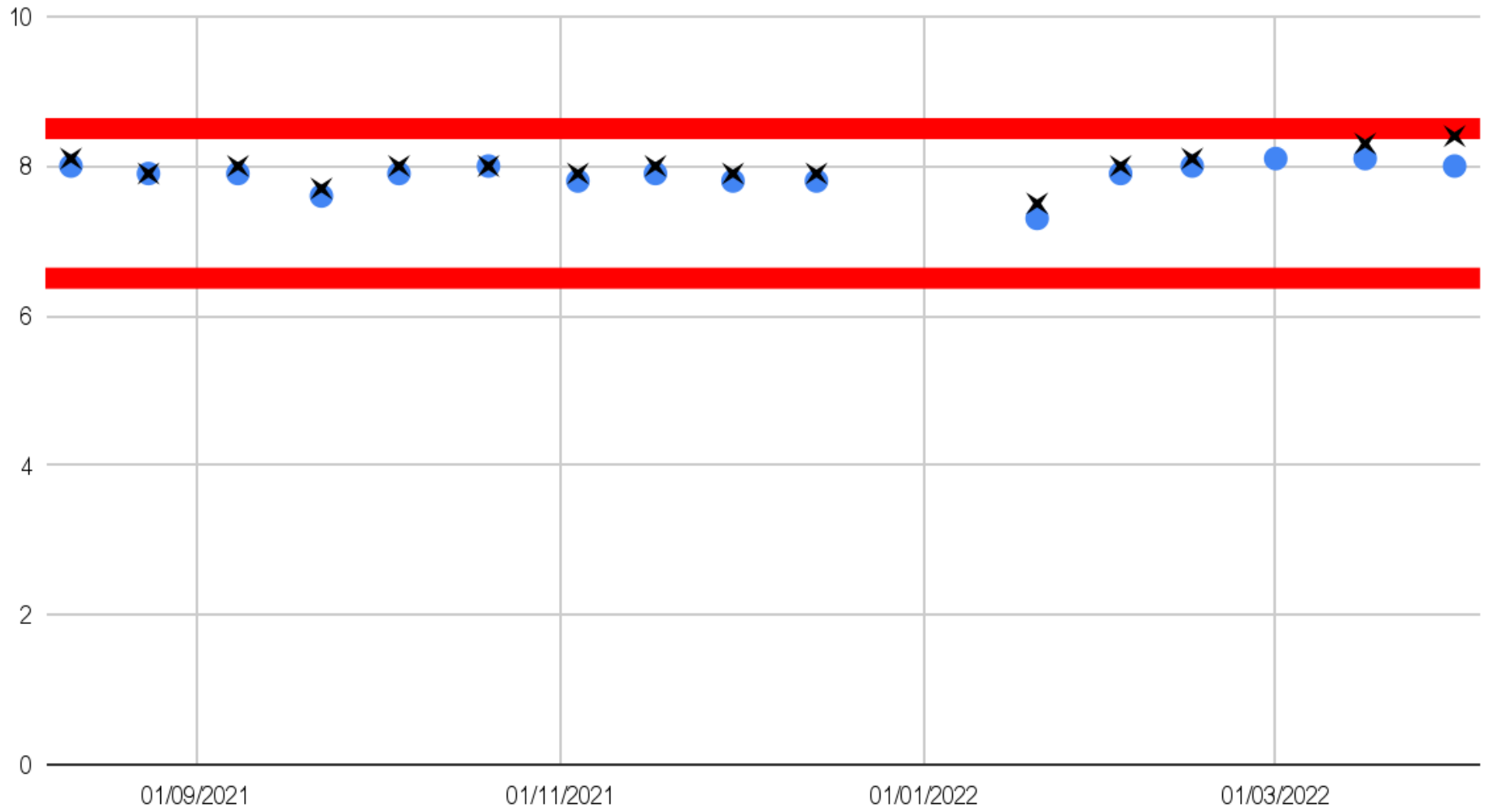
● Penshurst Treated Water Tank PFOS ($\mu\text{g/L}$) ✕ Penshurst Hydrants PFOS ($\mu\text{g/L}$) PFOA + PFOS $0.07 \mu\text{g/L}$ ■ Limit
PFOS $0.035 \mu\text{g/L}$ ■ Target

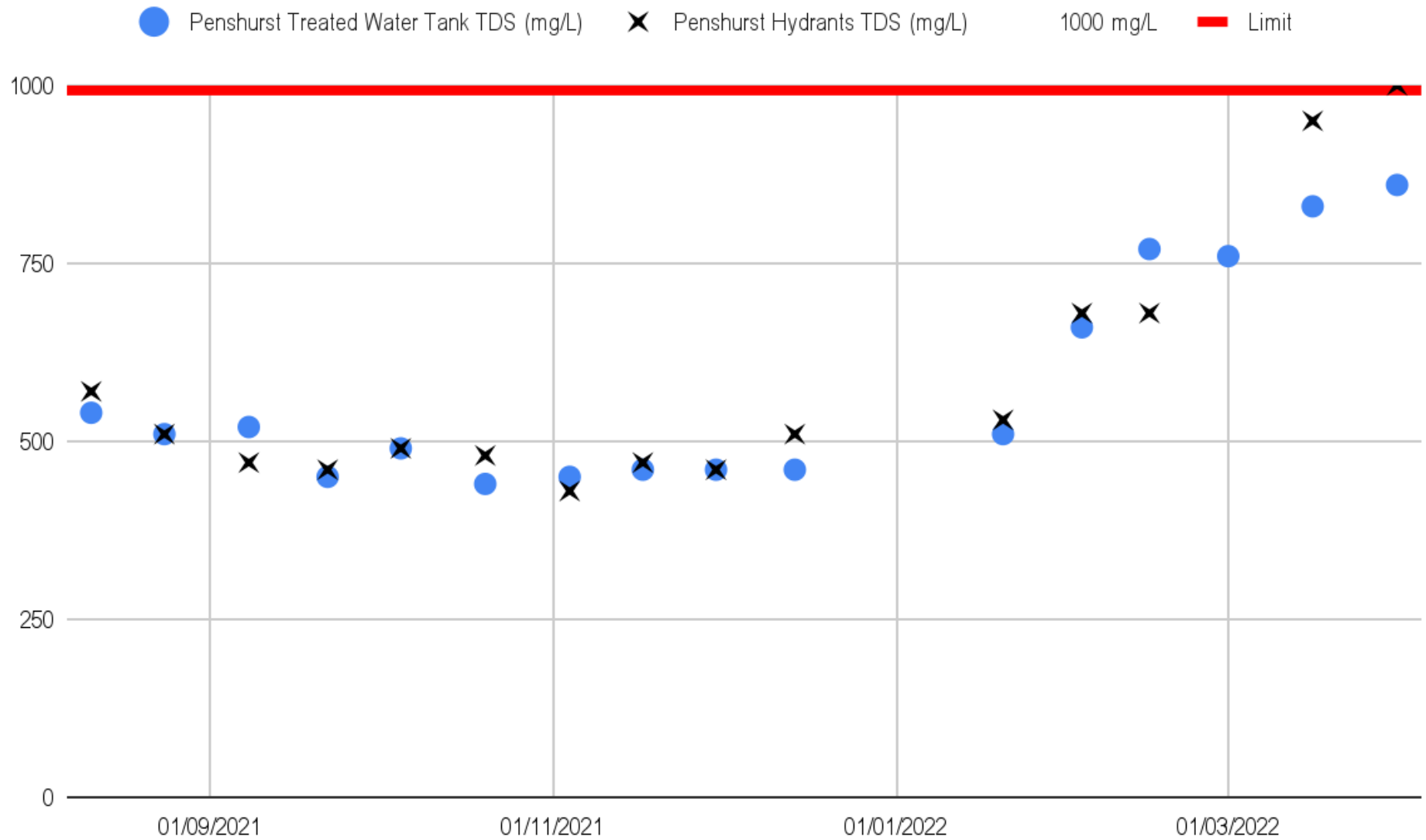


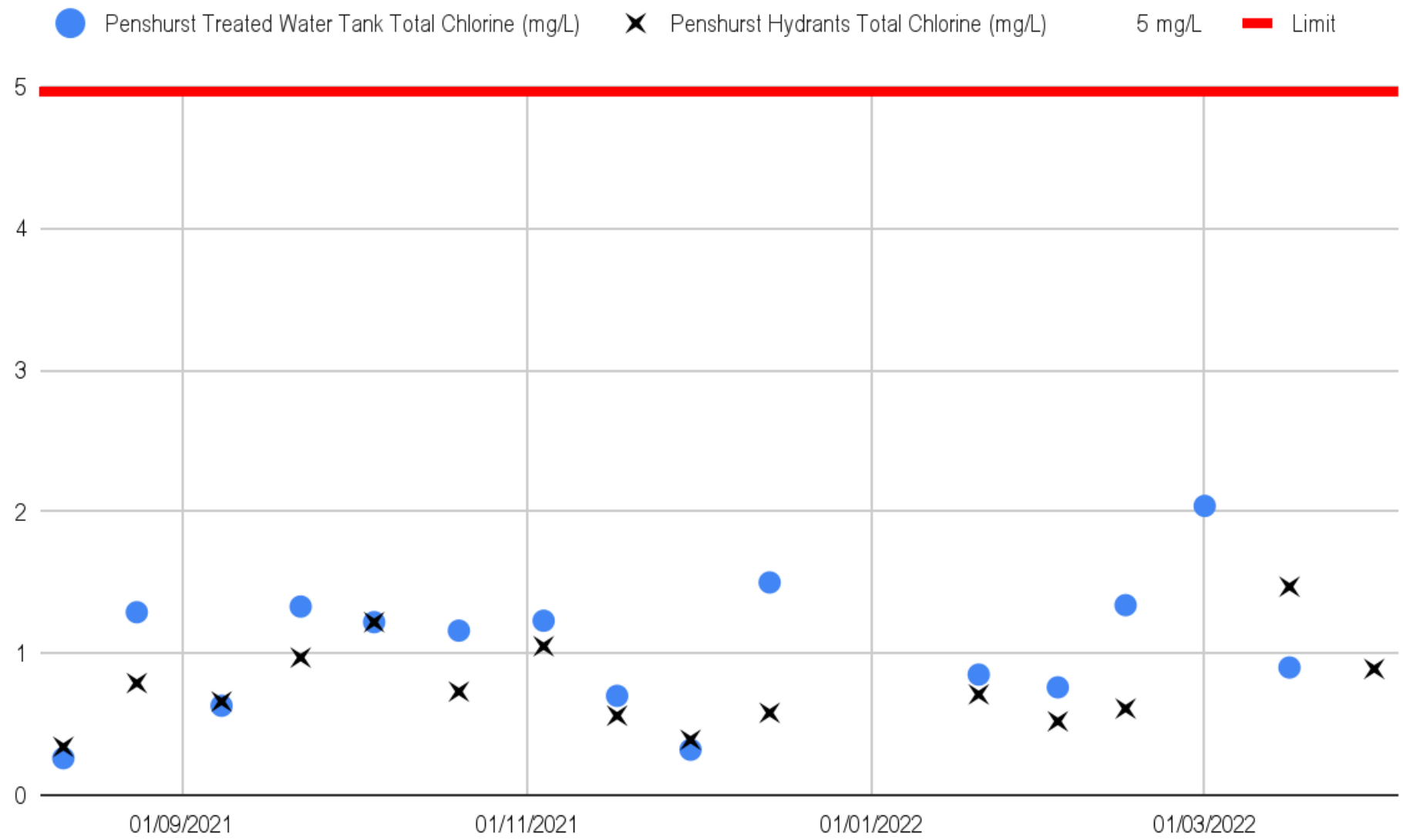
● Penshurst Treated Water Tank PFHxS (µg/L) ✕ Penshurst Hydrants PFHxS (µg/L) PFOS + PFHxS µg/L ■ Limit
PFHxS µg/L ■ Target

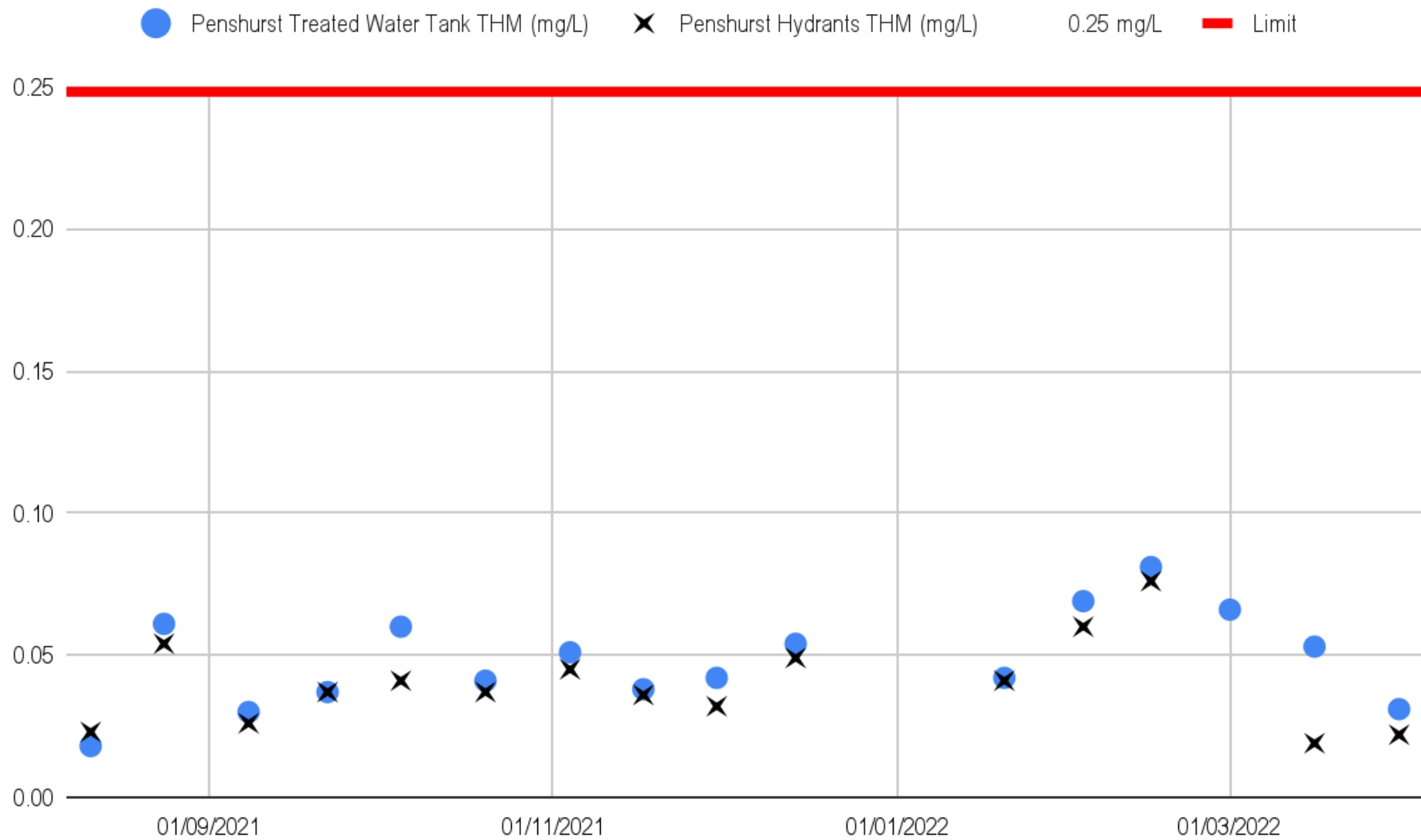


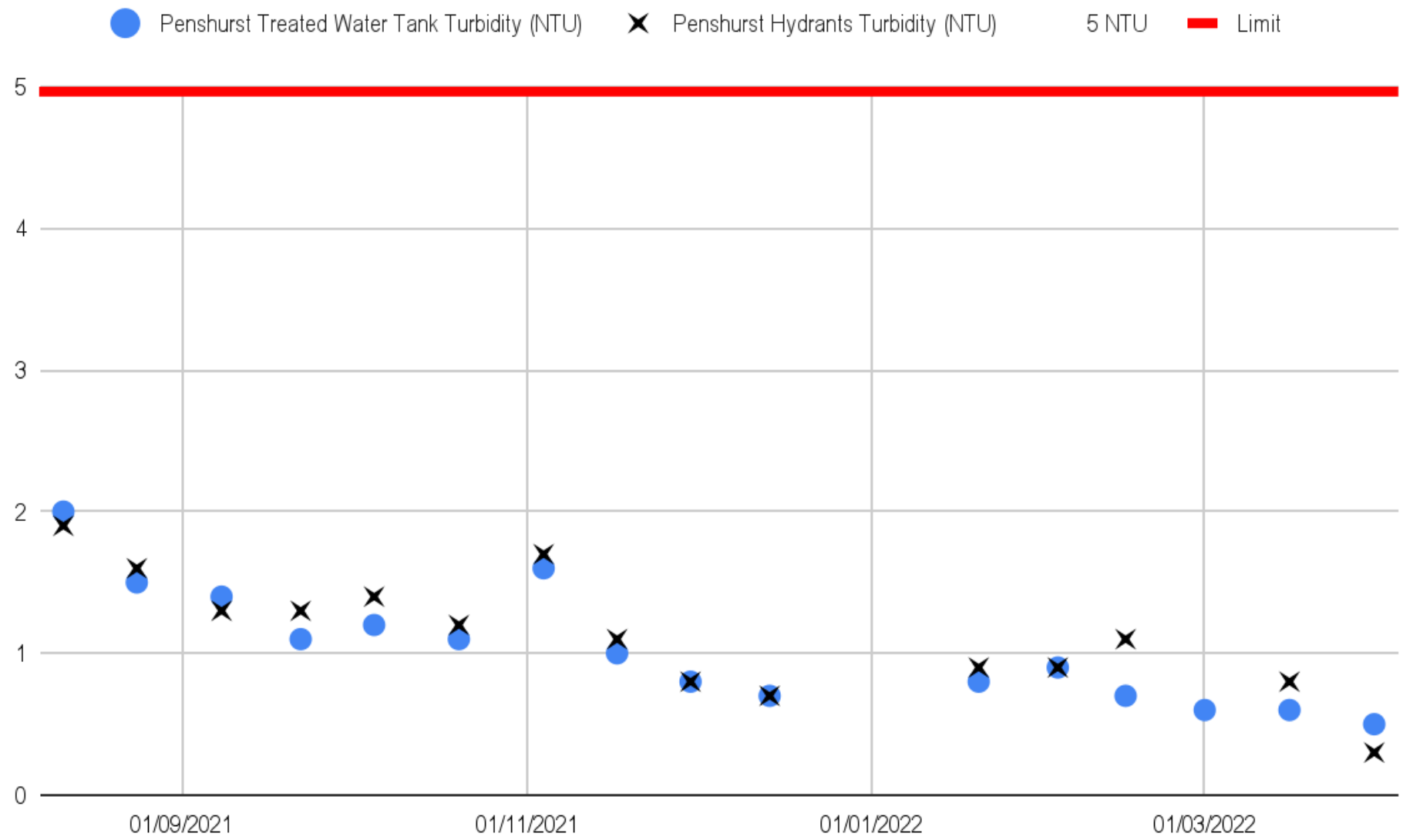
● Penshurst Treated Water Tank pH (-) ✕ Penshurst Hydrants pH (-) 6.5 Limit 8.5 Limit



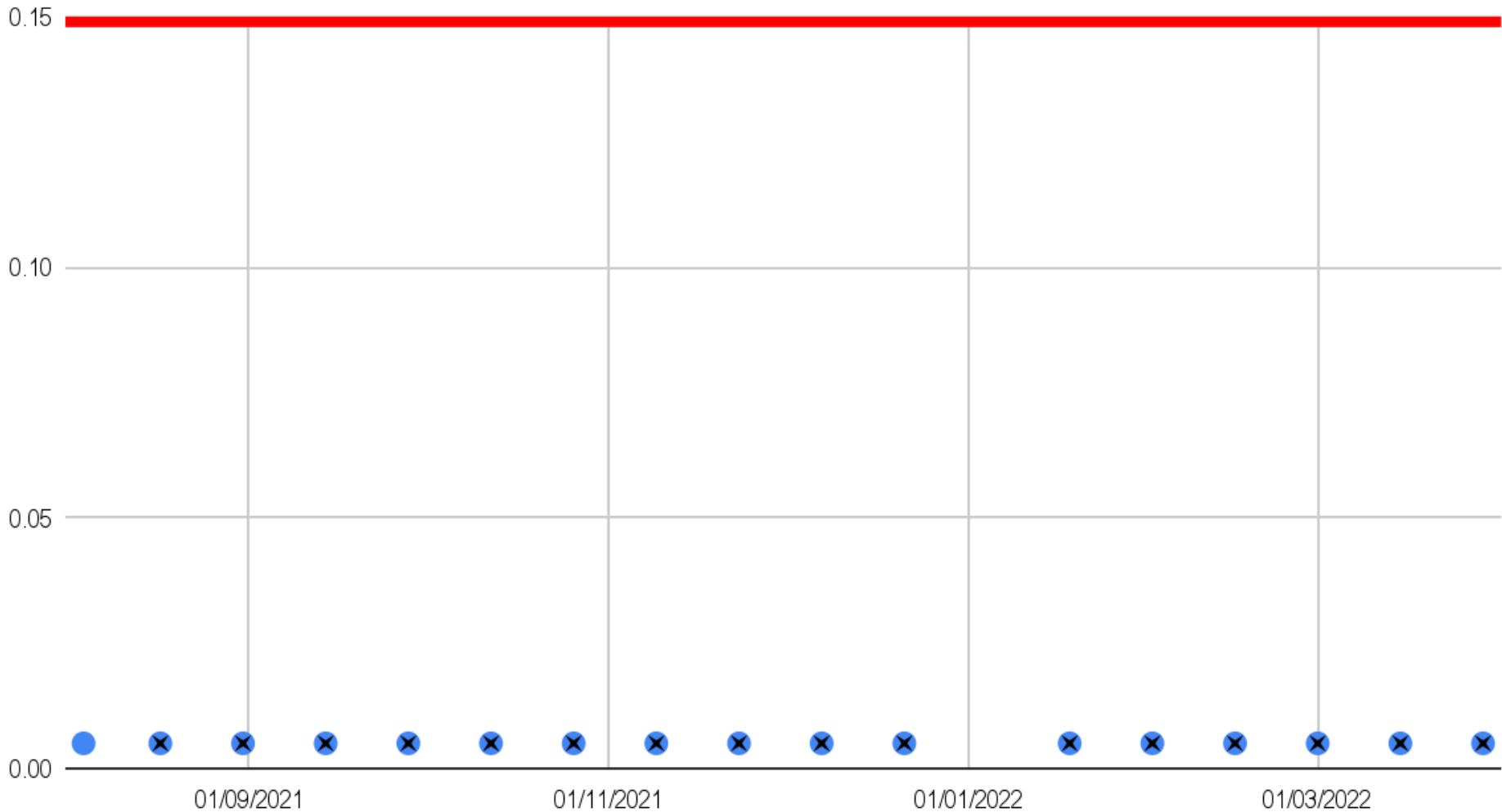


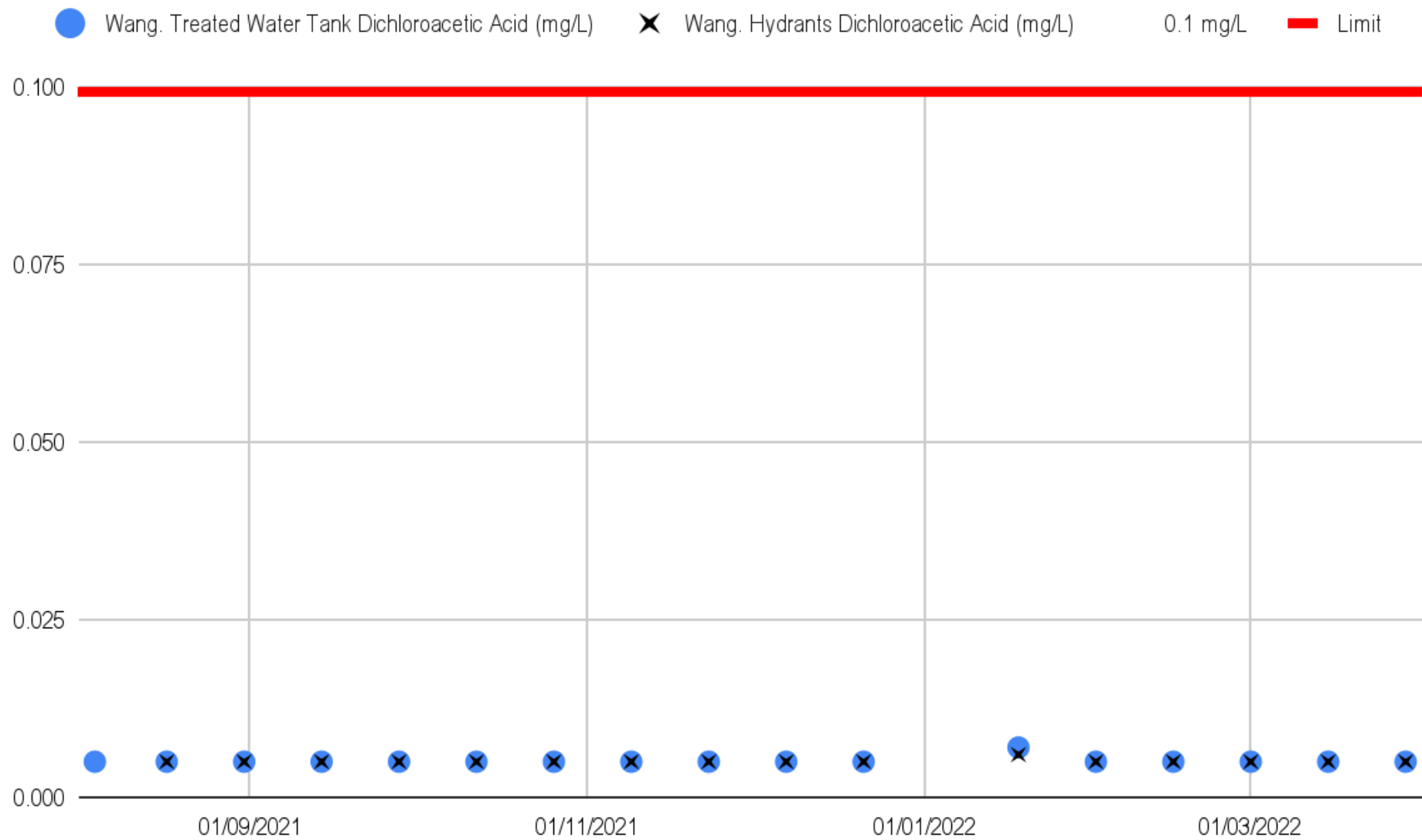


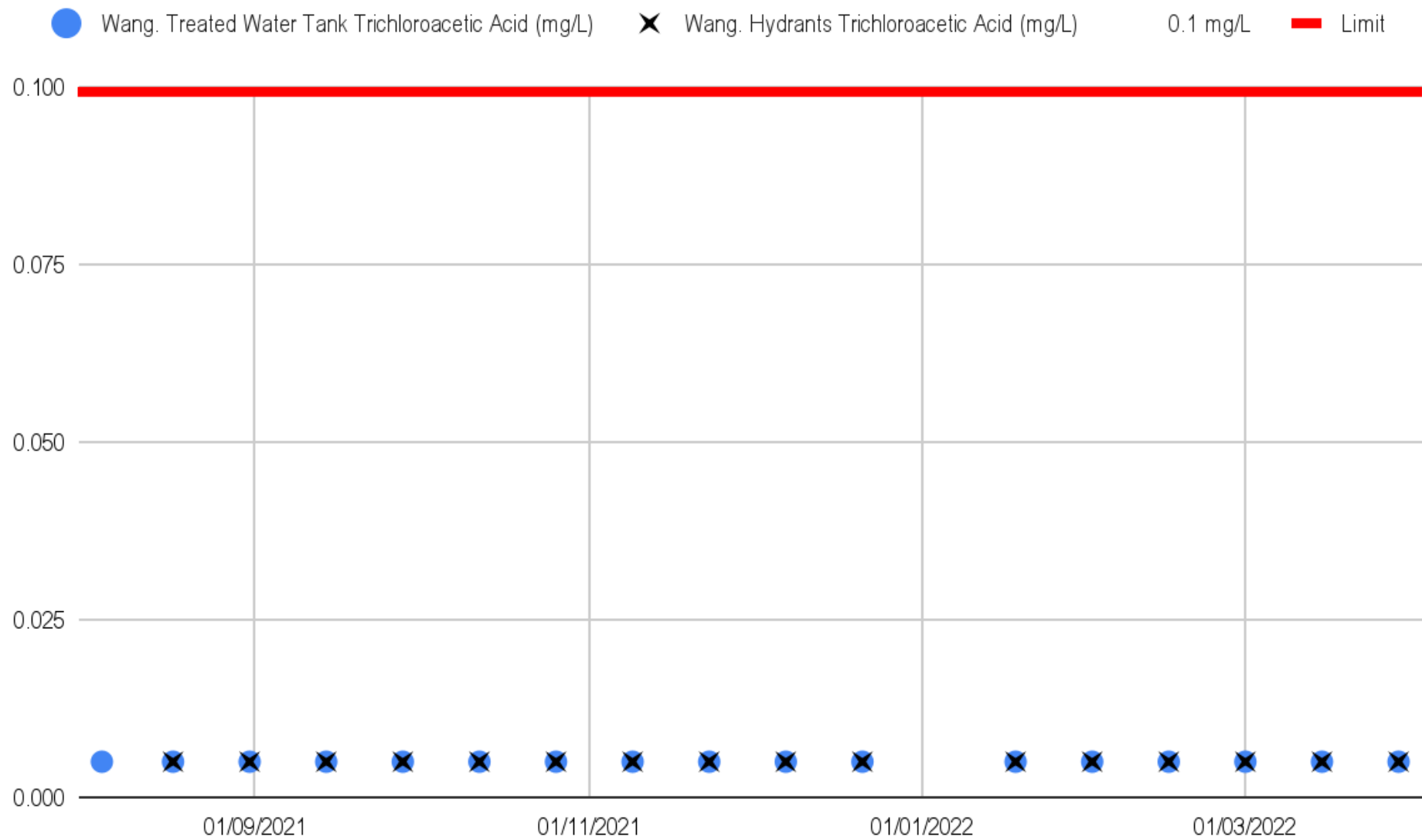




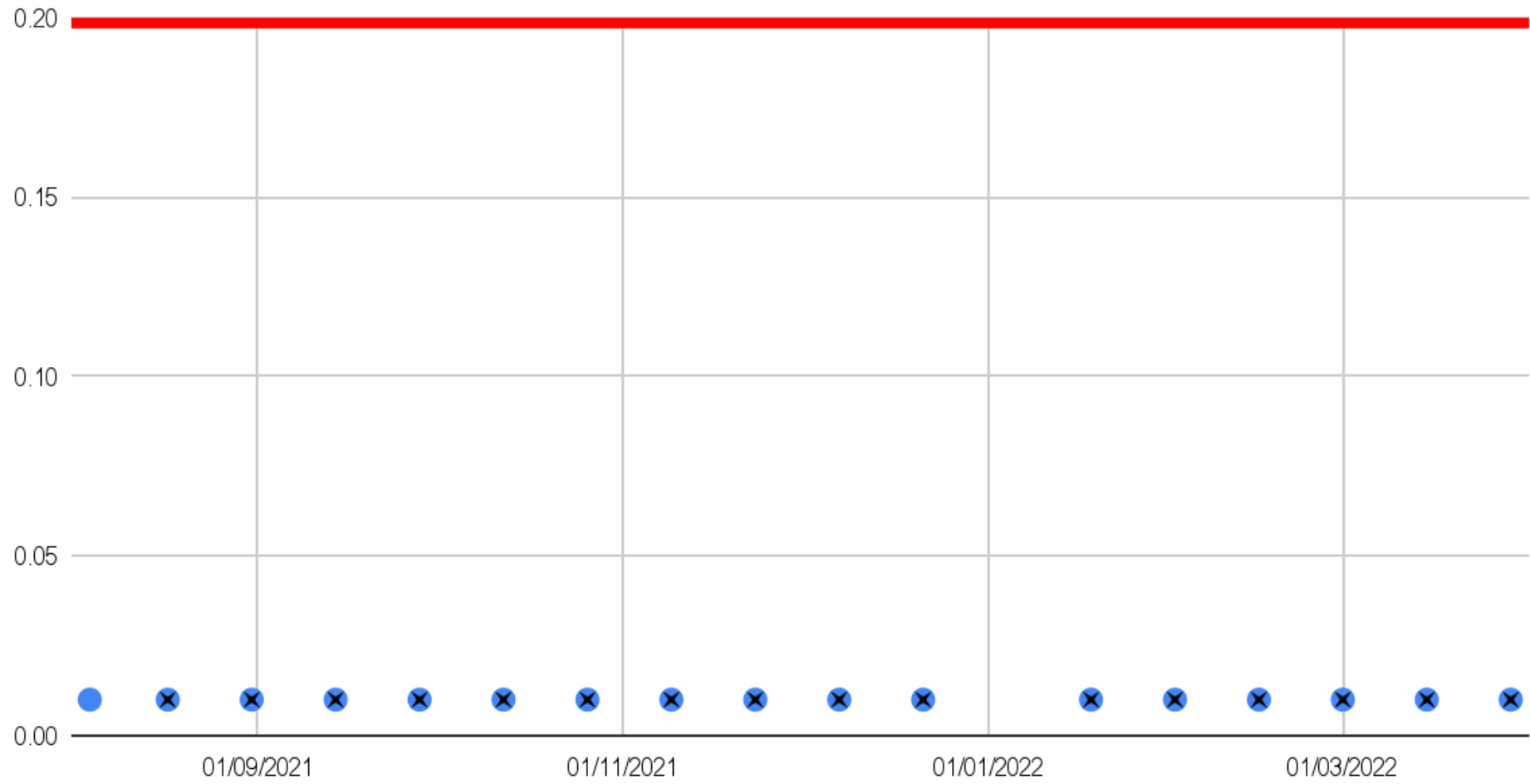
● Wang. Treated Water Tank Chloroacetic Acid (mg/L) ✕ Wang. Hydrants Chloroacetic Acid (mg/L) 0.15 mg/L — Limit

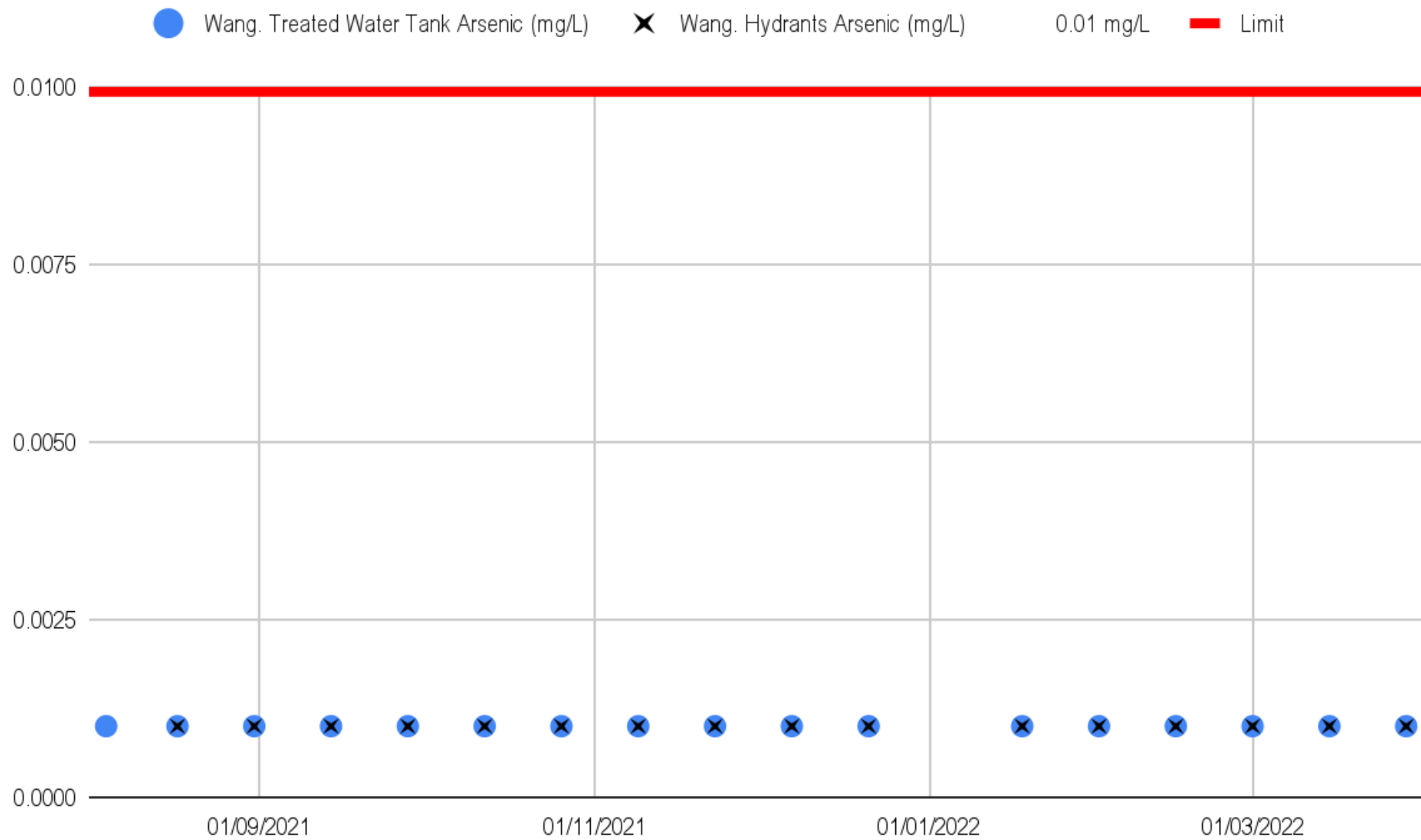


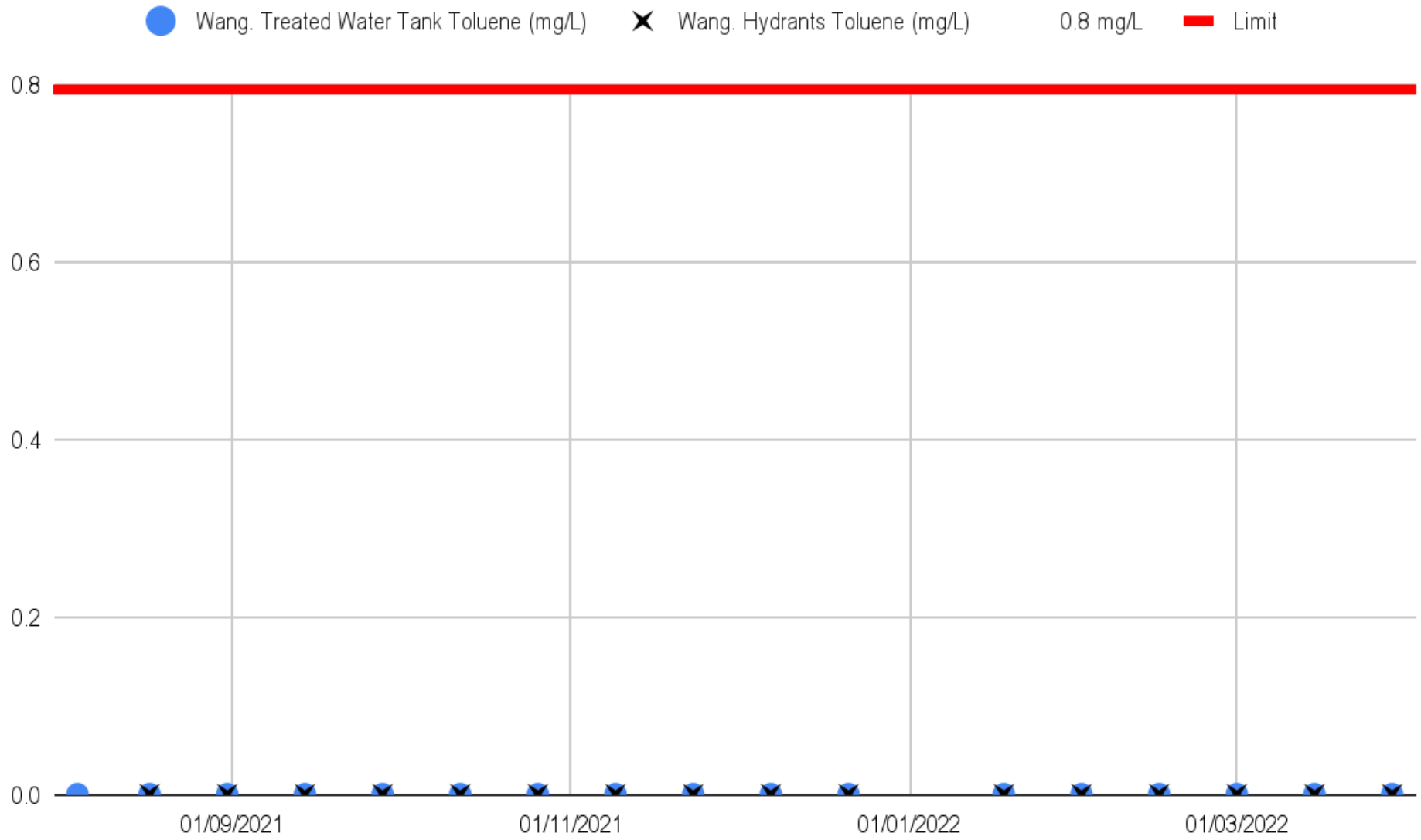


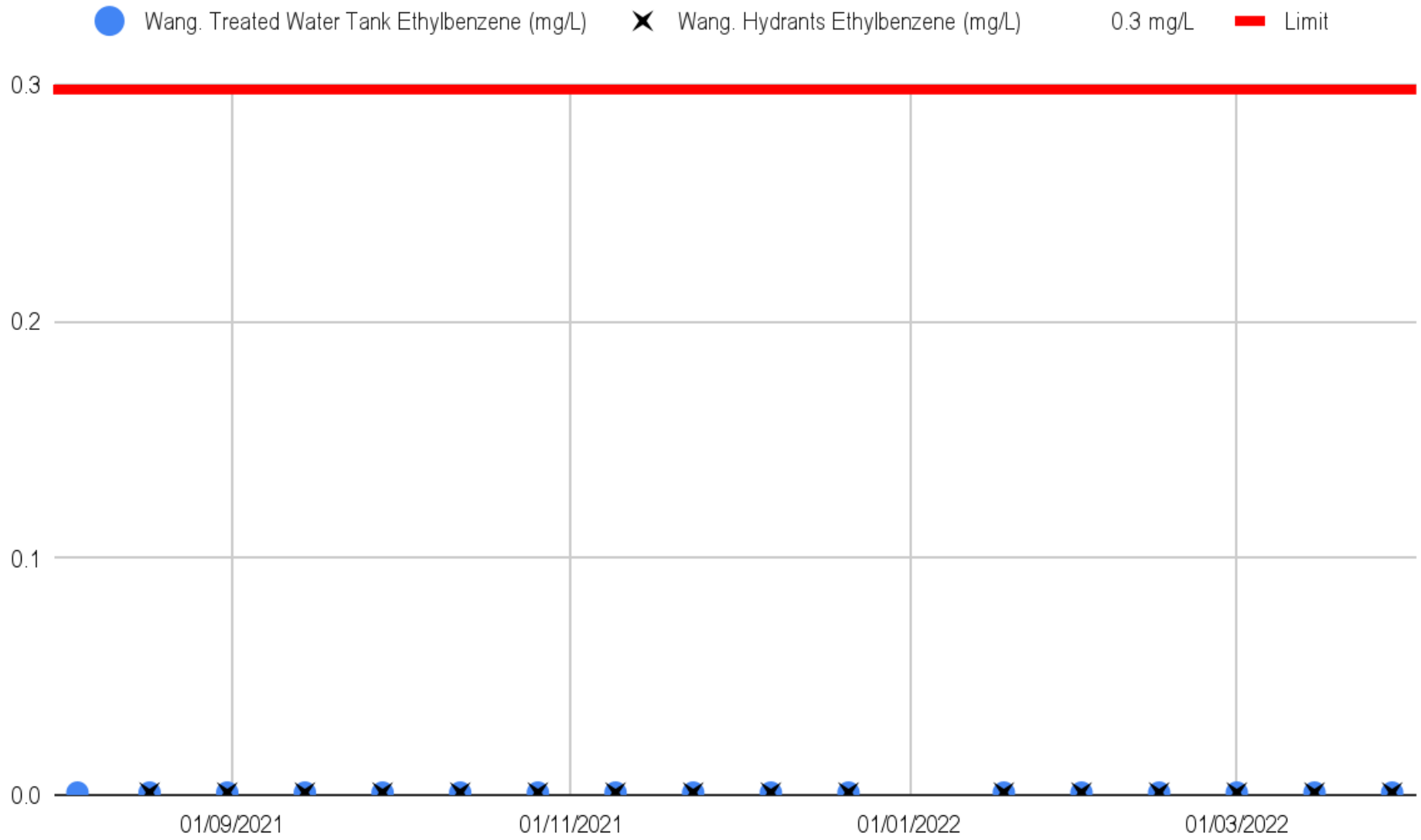


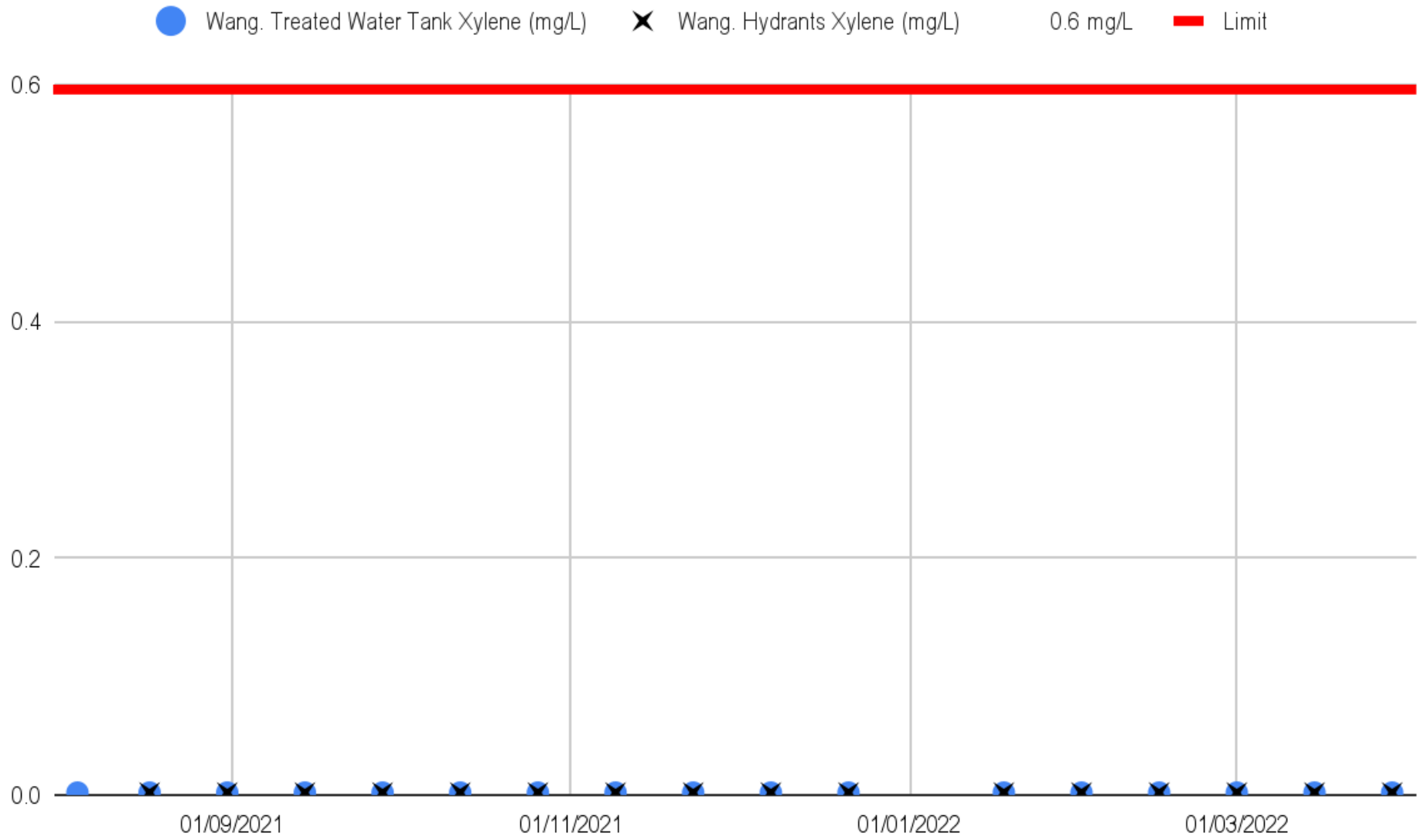
● Wang. Treated Water Tank Acid Soluble Aluminium (mg/L) ✕ Wang. Hydrants Acid Soluble Aluminium (mg/L) 0.2 mg/L
— Limit



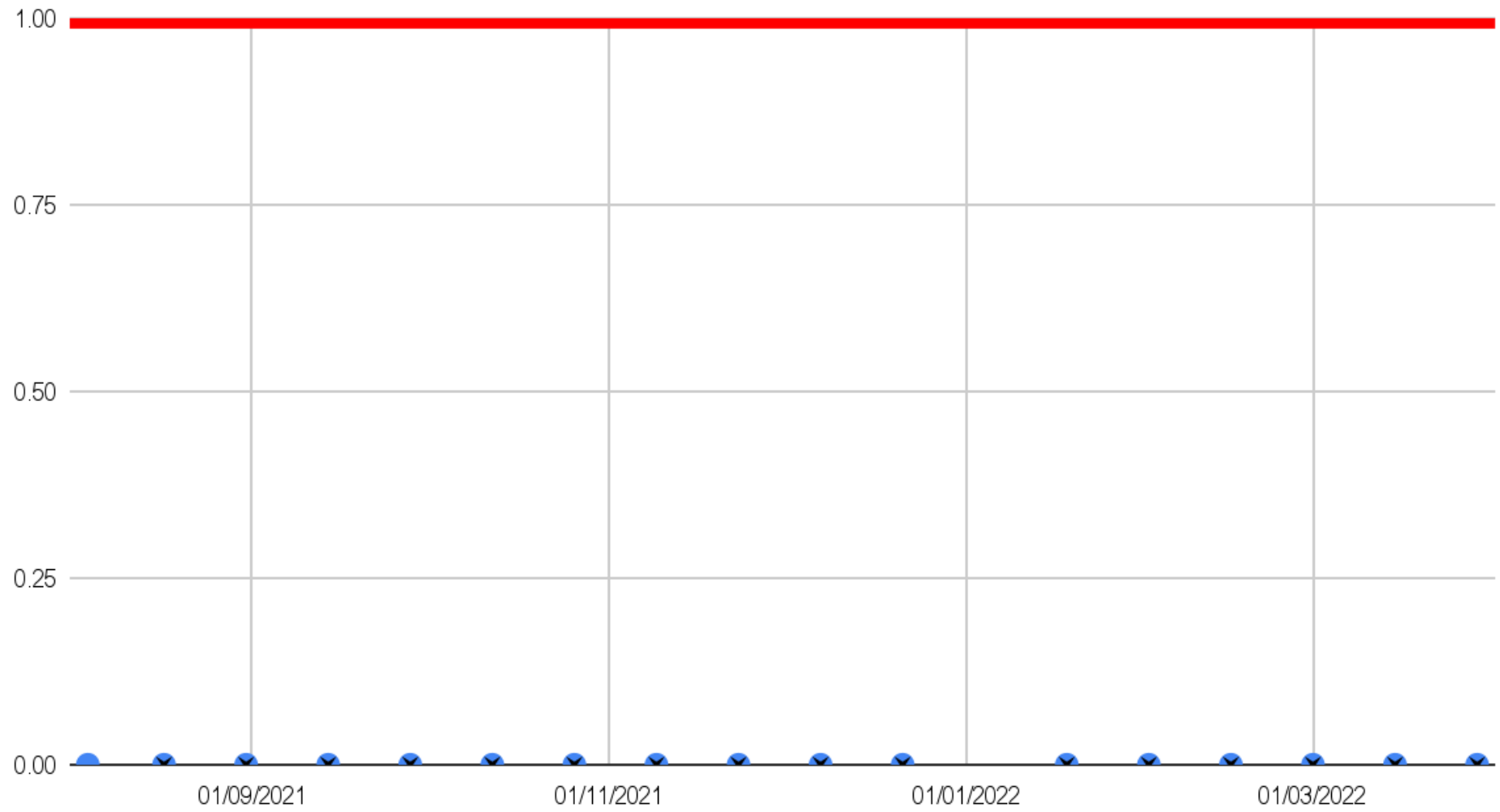


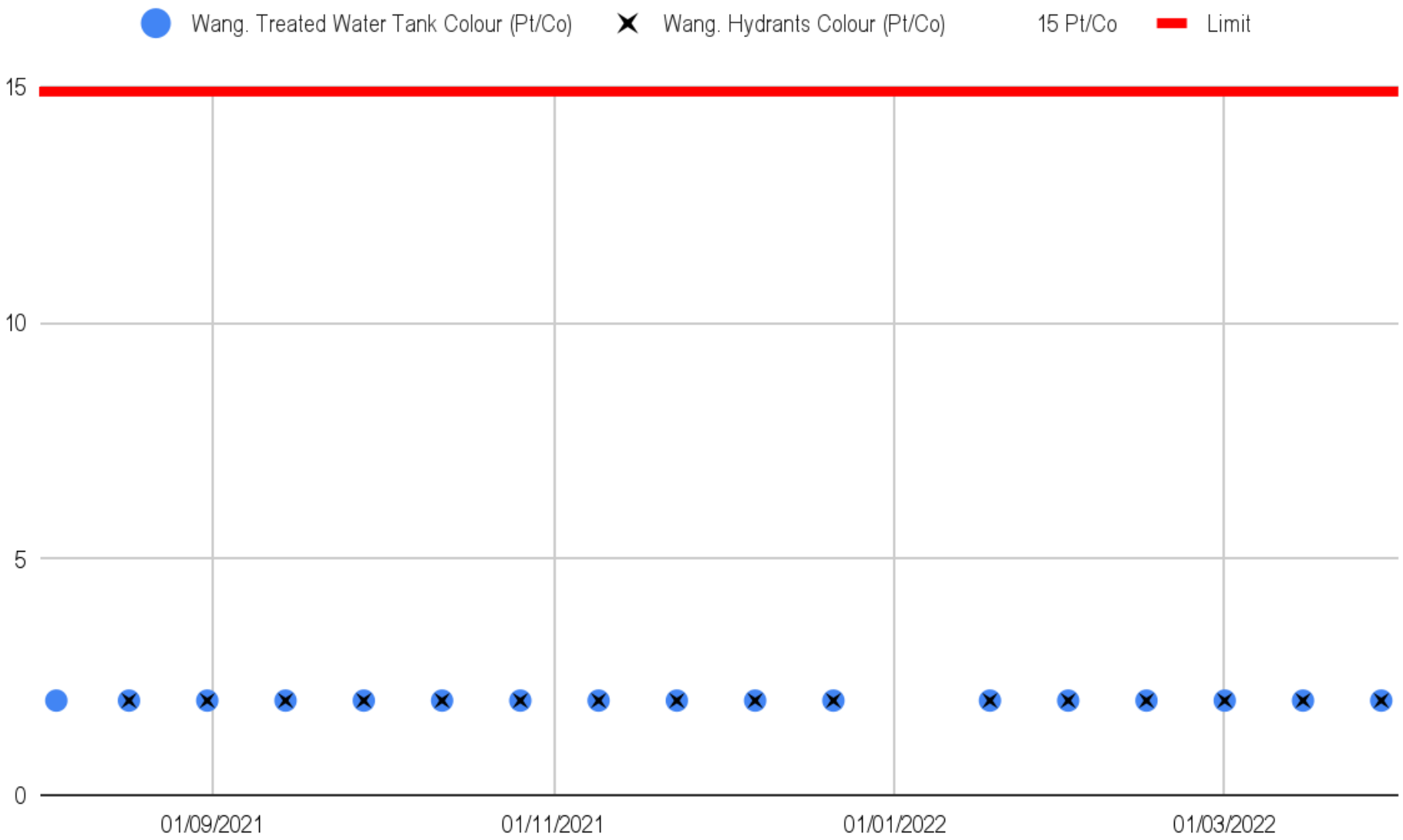


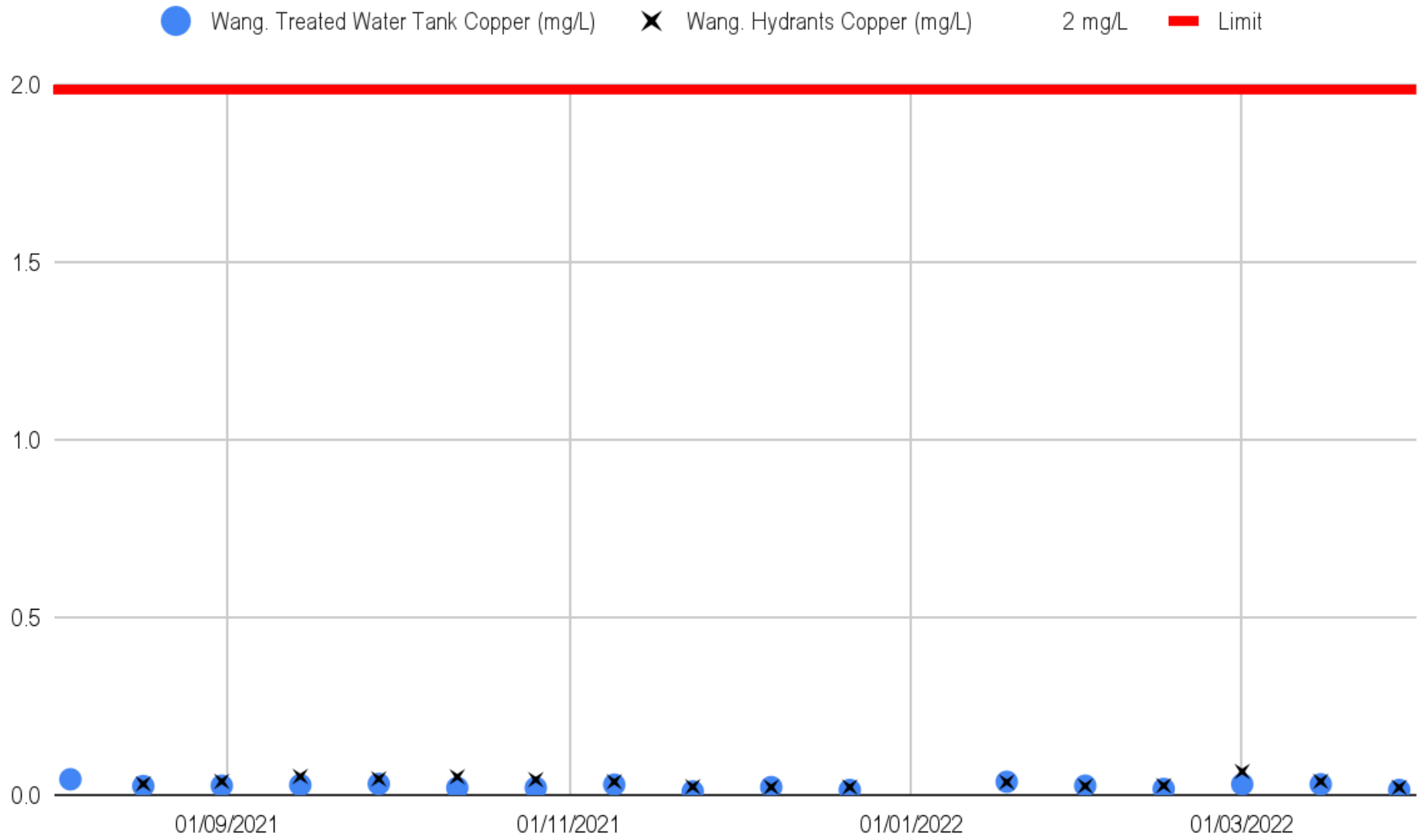




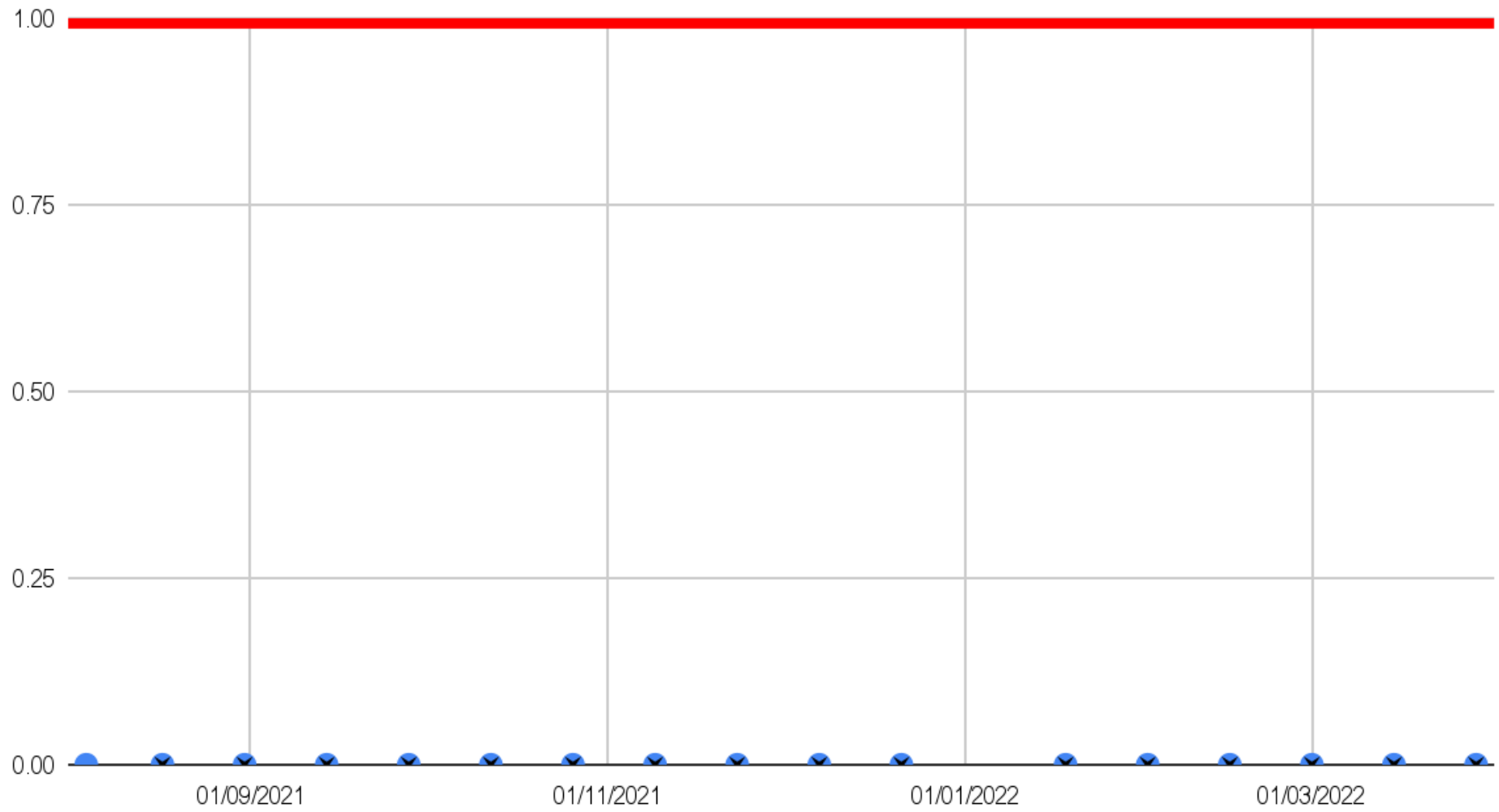
● Wang. Treated Water Tank Coliforms (CFU/100mL) ✕ Wang. Hydrants Coliforms (CFU/100mL) 1 cfu/100mL — Limit

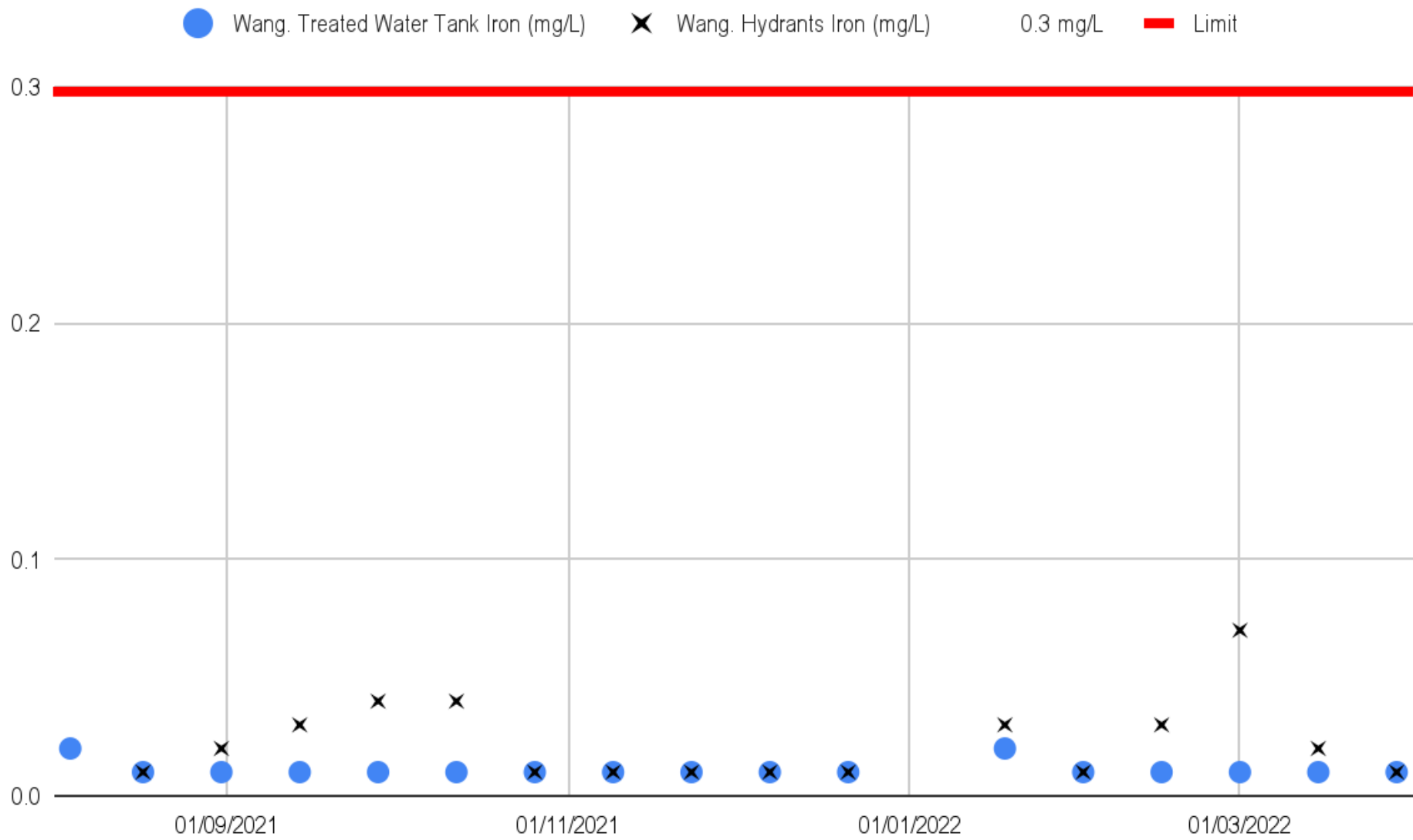


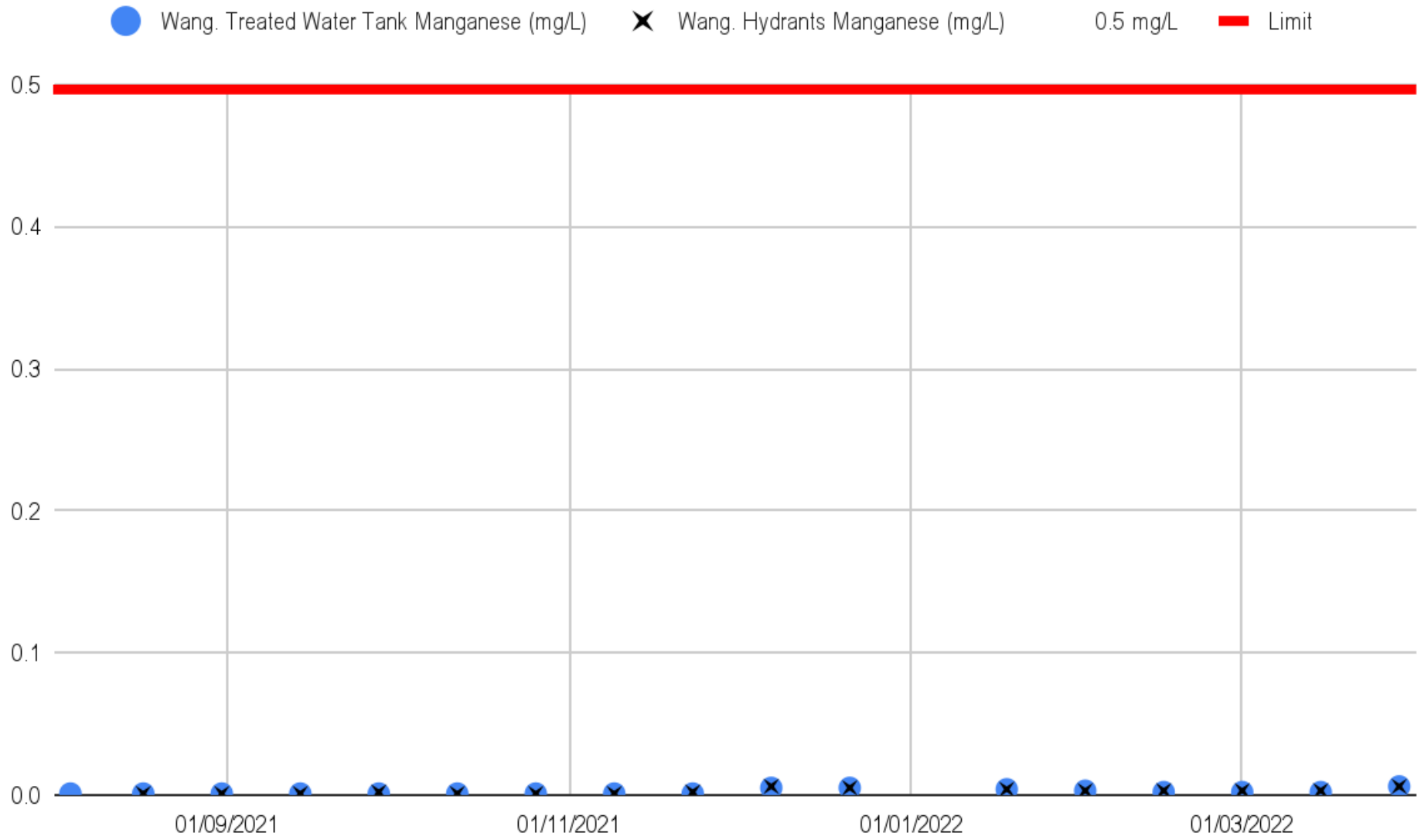




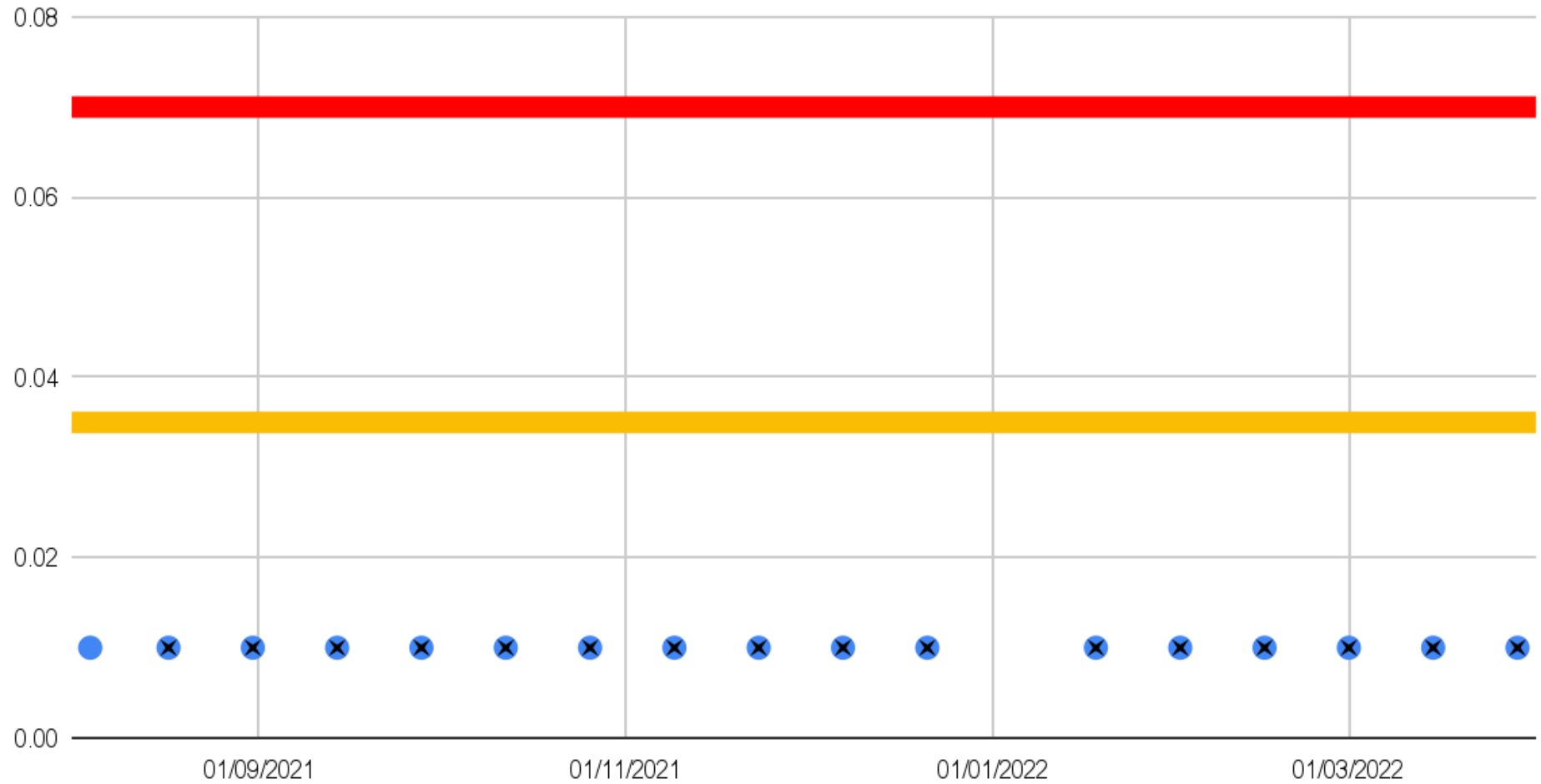
● Wang. Treated Water Tank E.coli (CFU/100mL) ✕ Wang. Hydrants E.coli (CFU/100mL) 1 cfu/100mL — Limit



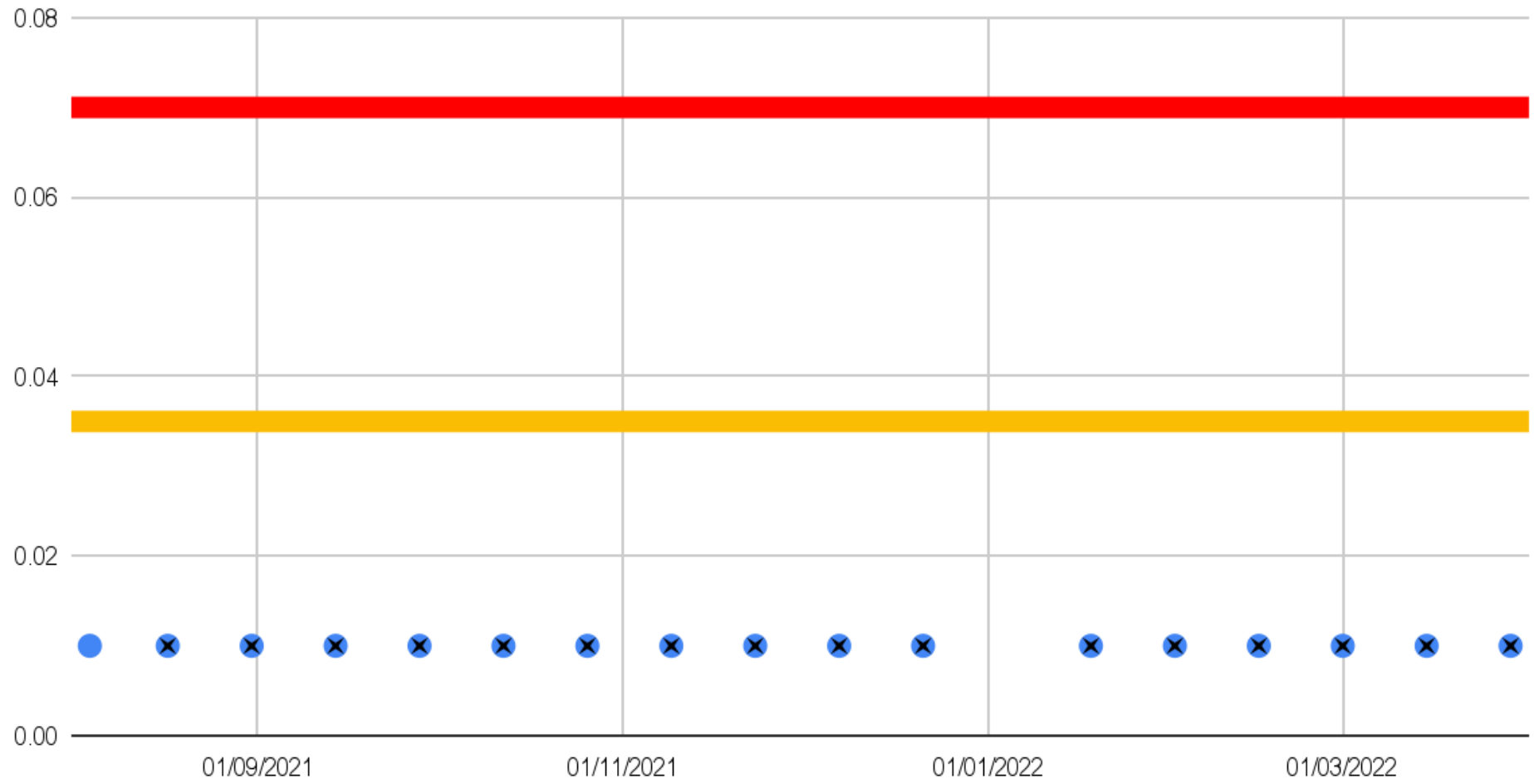




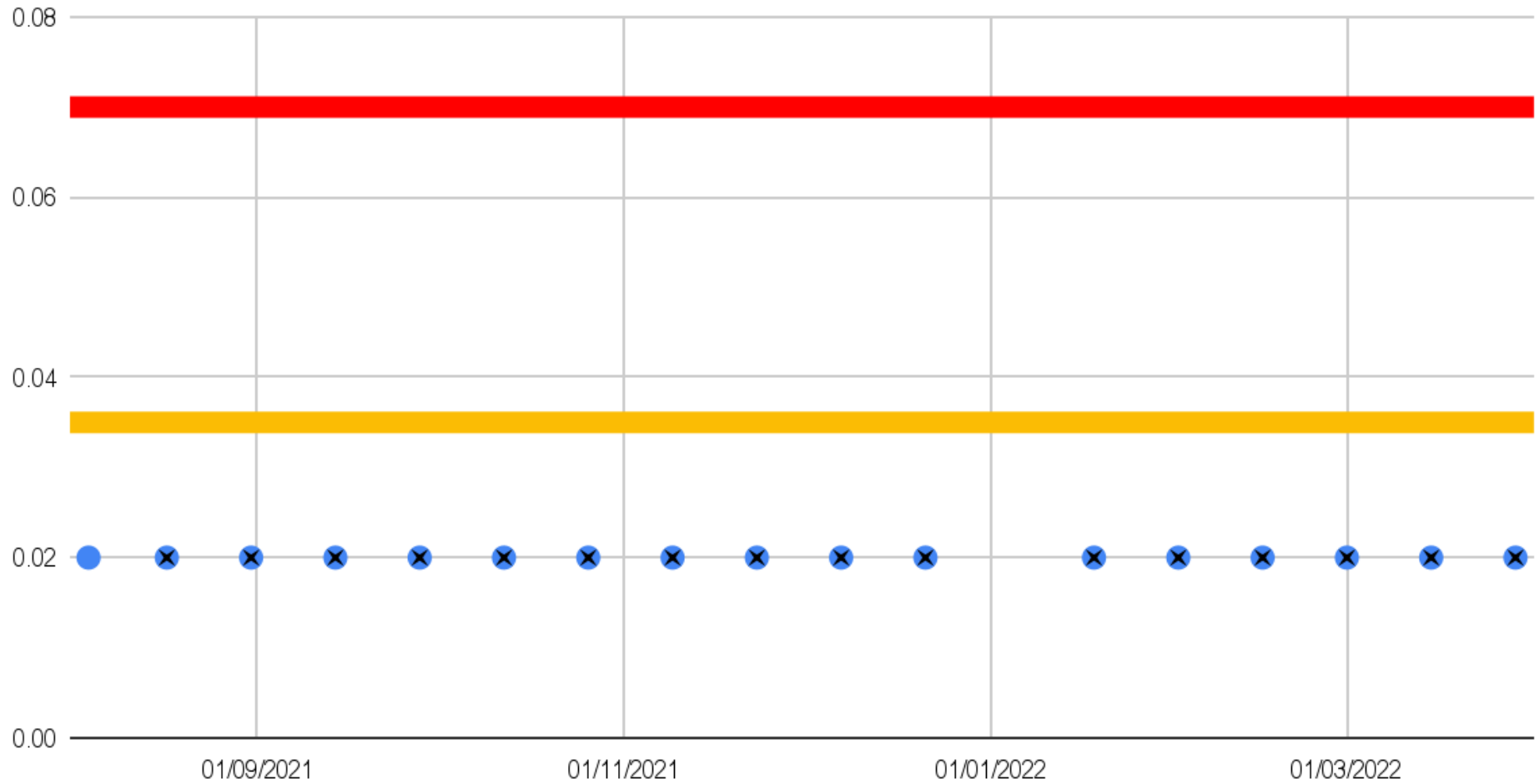
● Wang. Treated Water Tank PFOA ($\mu\text{g/L}$) ✕ Wang. Hydrants PFOA ($\mu\text{g/L}$) PFOA + PFOS 0.07 $\mu\text{g/L}$ — Limit
PFOA 0.035 $\mu\text{g/L}$ — Target

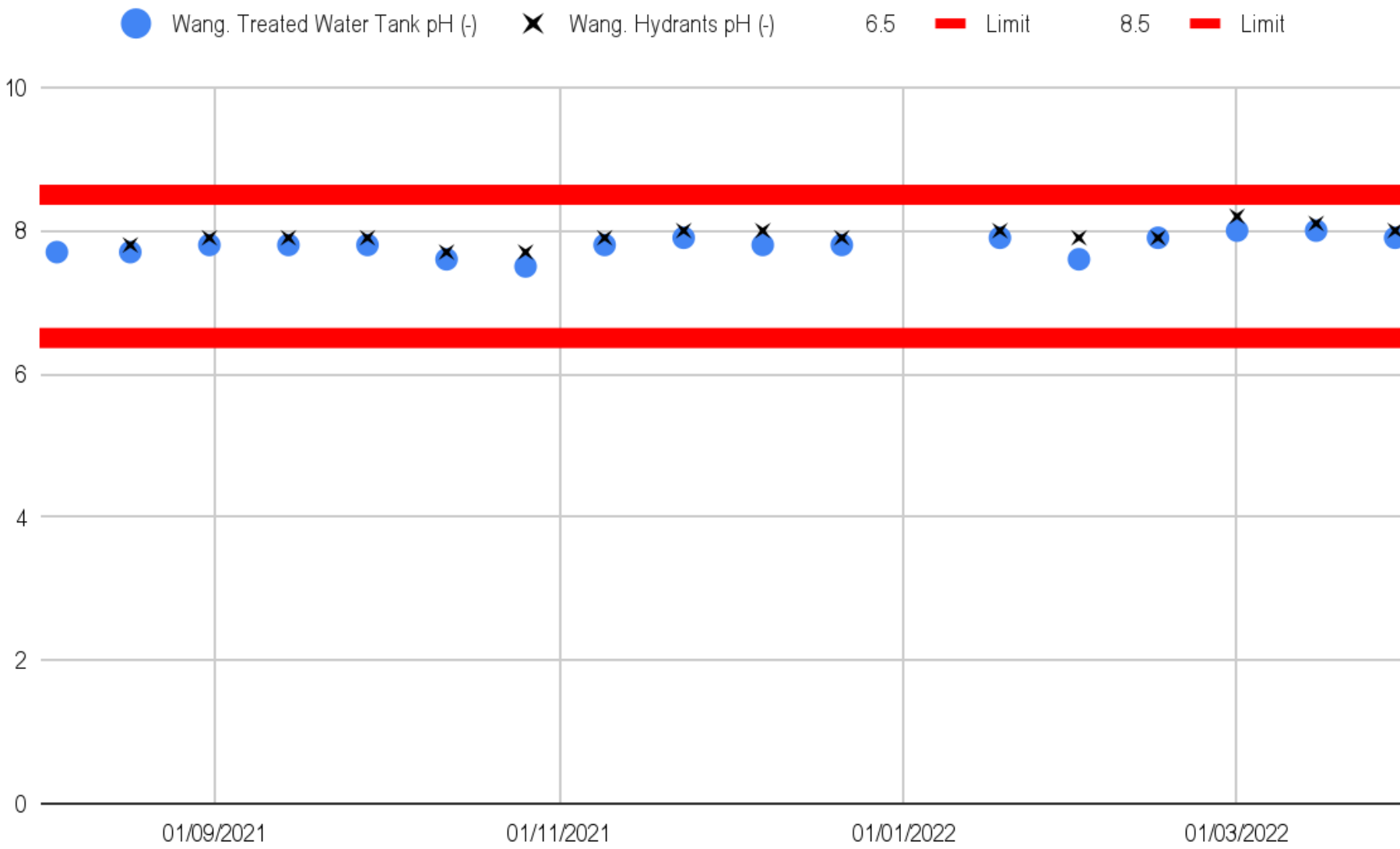


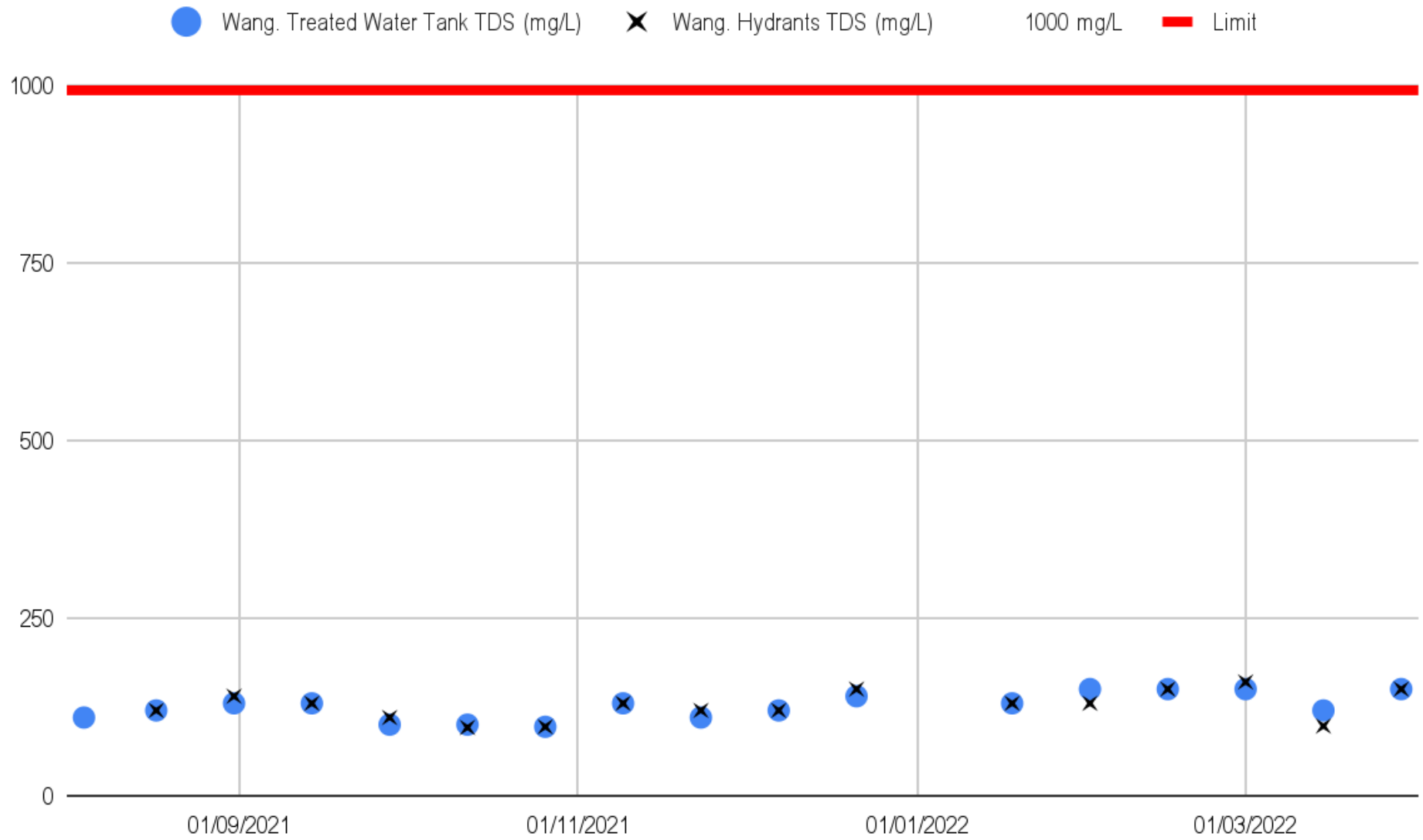
● Wang. Treated Water Tank PFOS ($\mu\text{g/L}$) ✕ Wang. Hydrants PFOS ($\mu\text{g/L}$) PFOA + PFOS $0.07 \mu\text{g/L}$ ■ Limit
PFOS $0.035 \mu\text{g/L}$ ■ Target

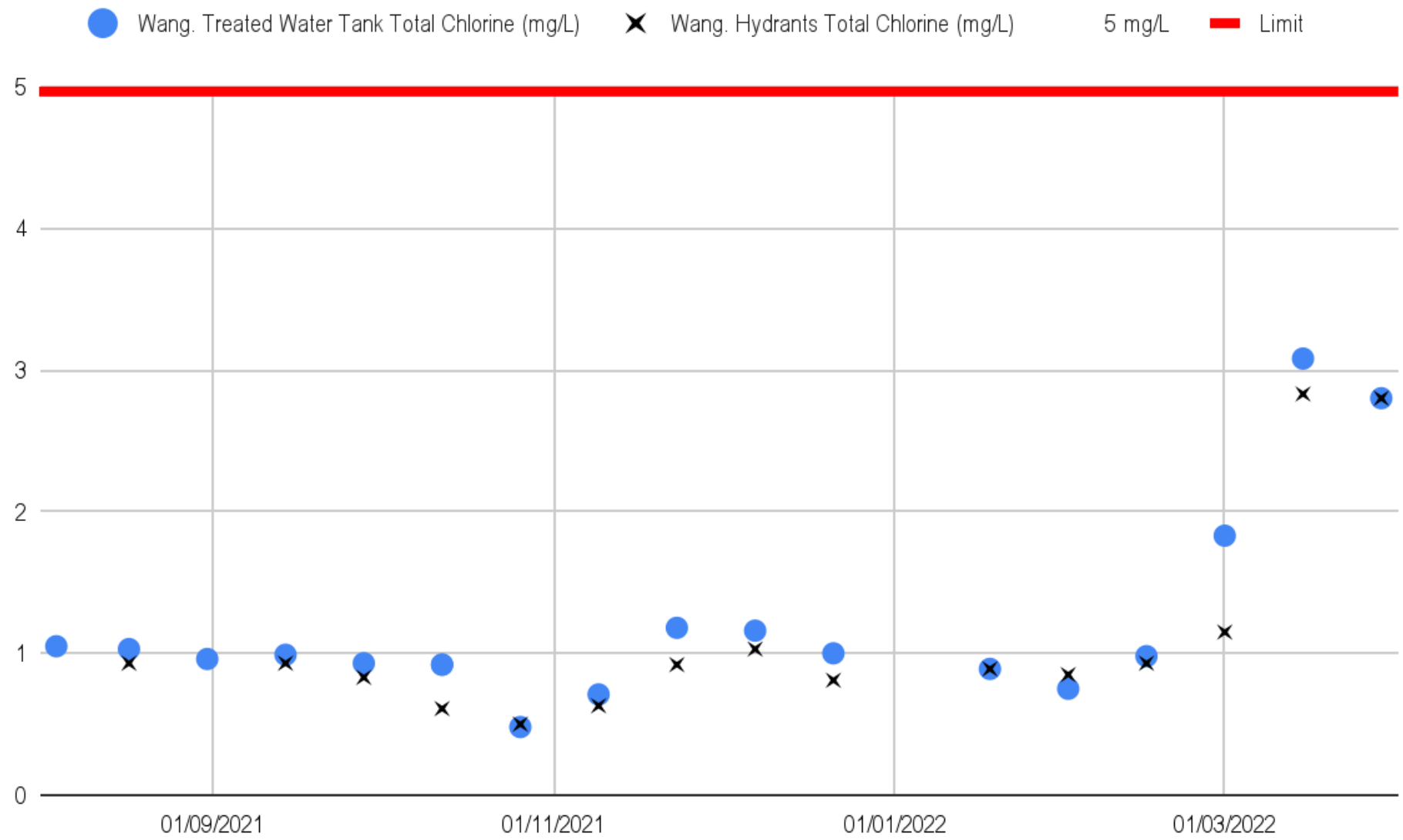


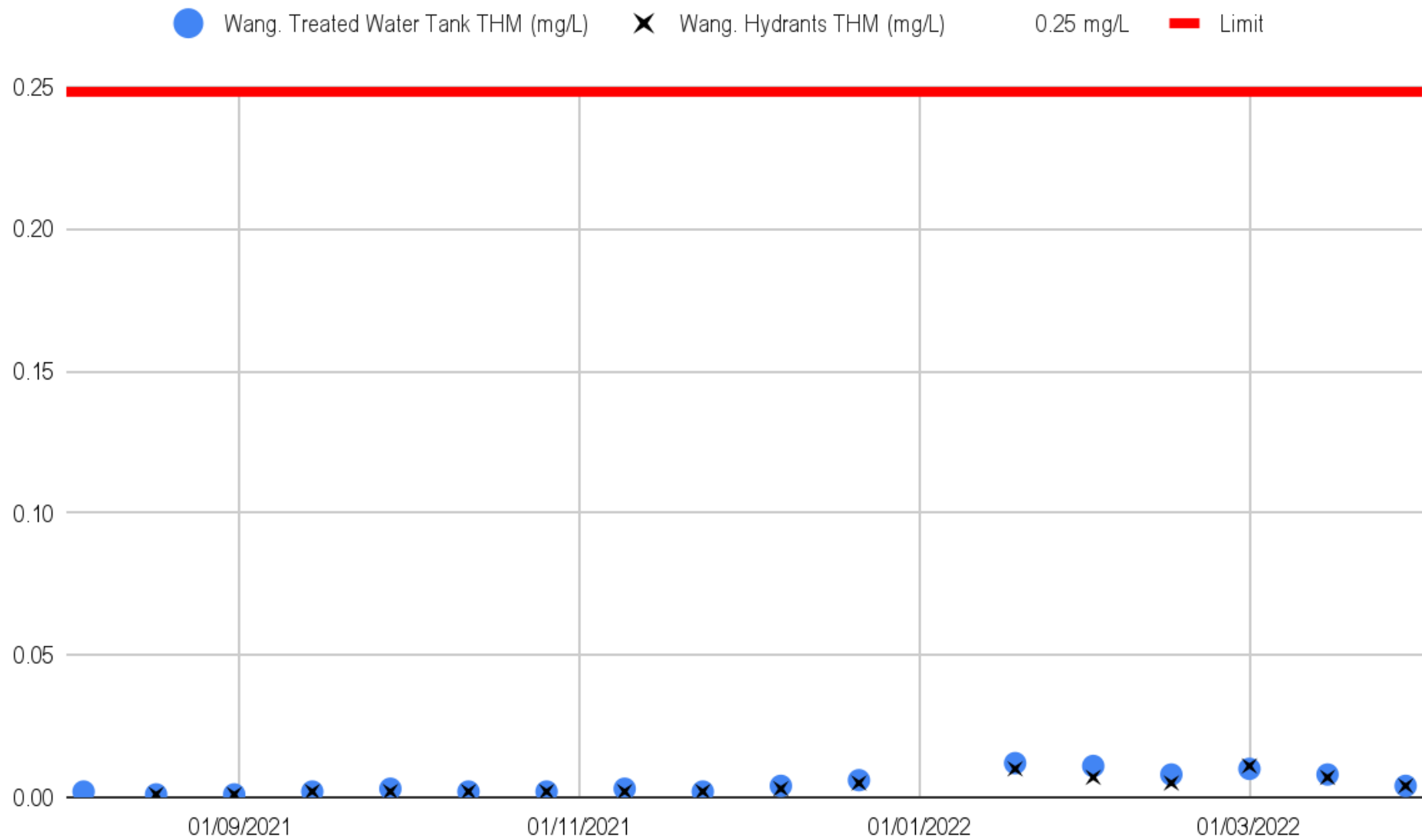
● Wang. Treated Water Tank PFHxS (µg/L) ✕ Wang. Hydrants PFHxS (µg/L) PFOS + PFHxS µg/L ■ Limit
PFHxS µg/L ■ Target

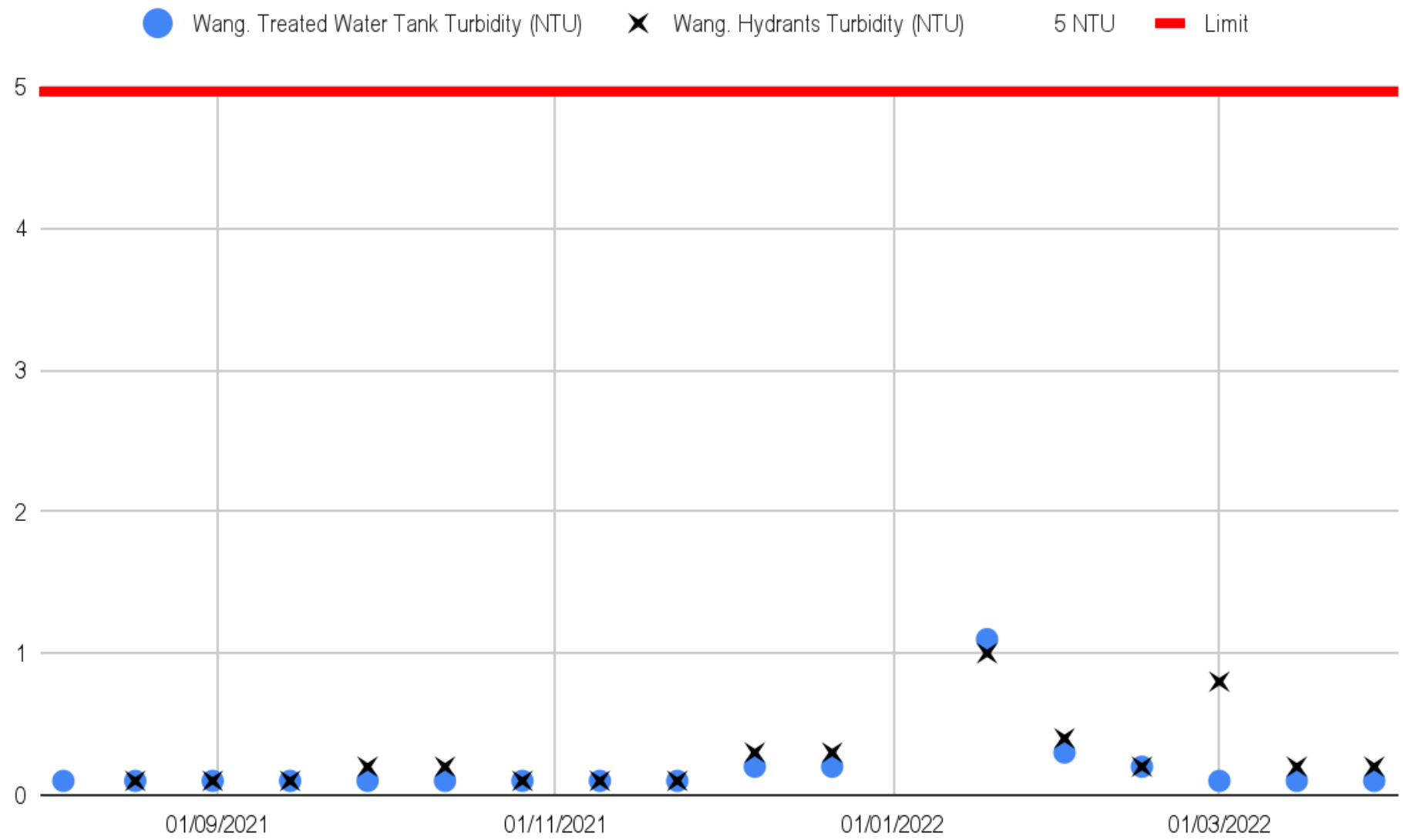




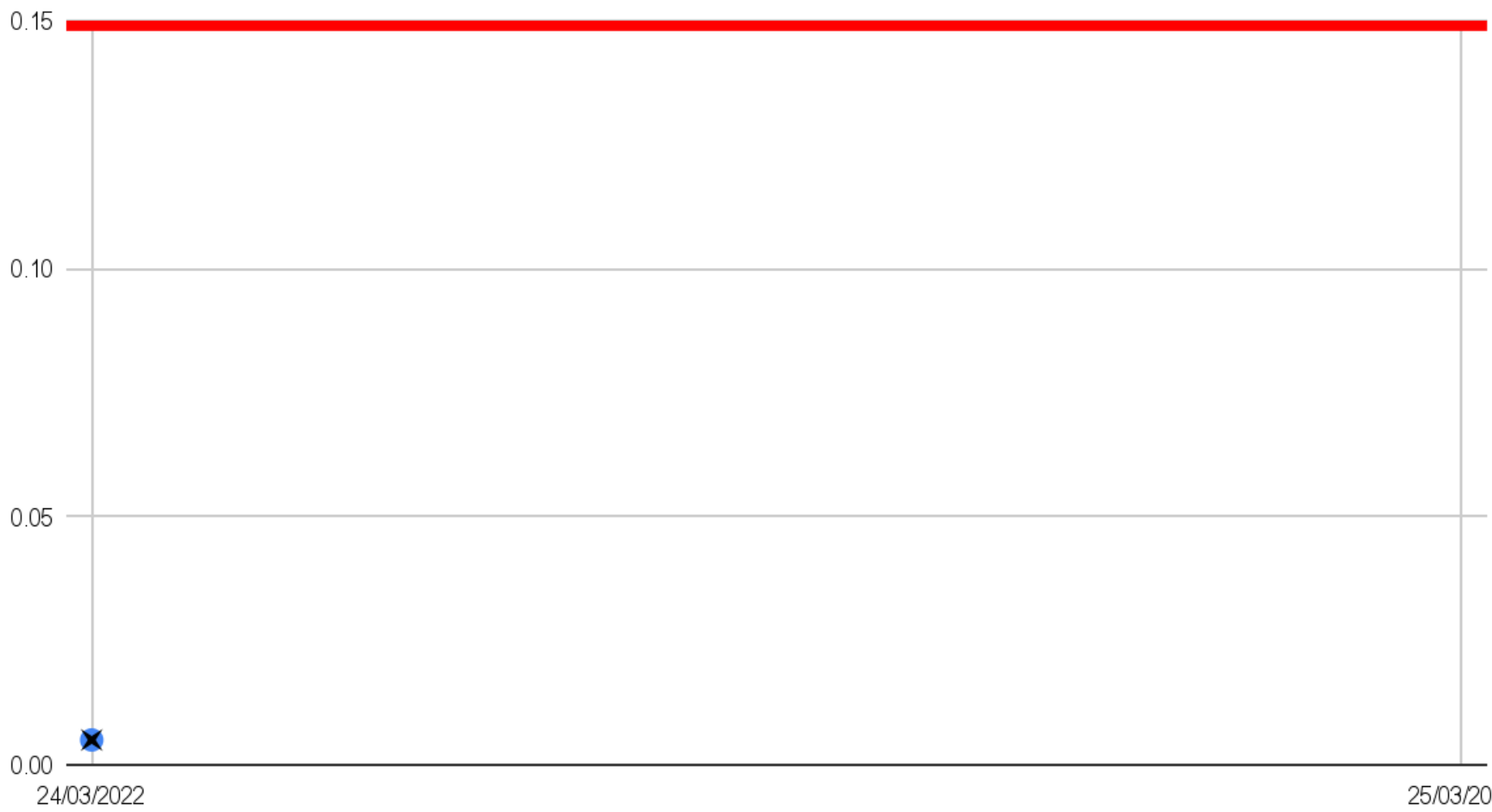




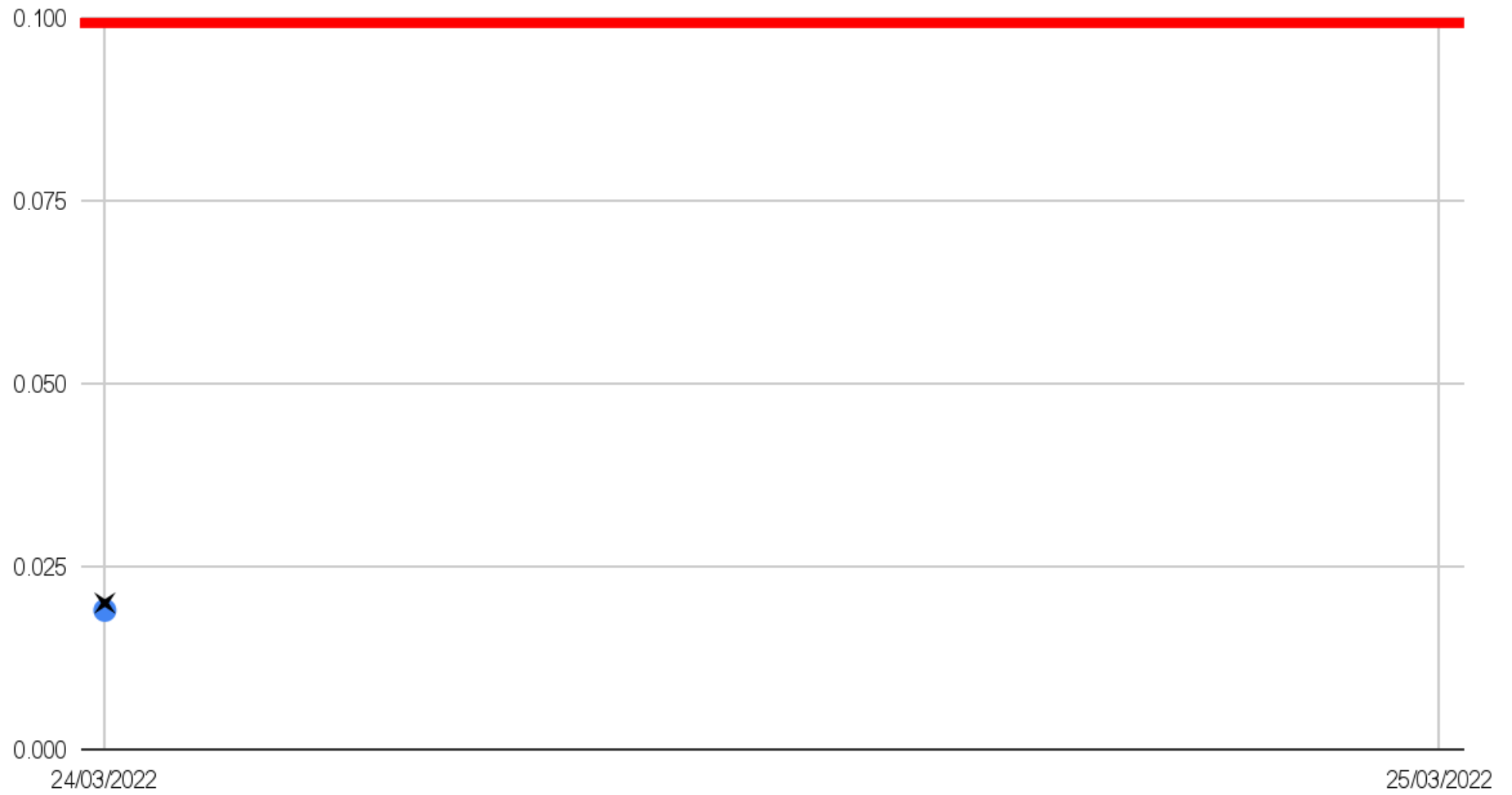




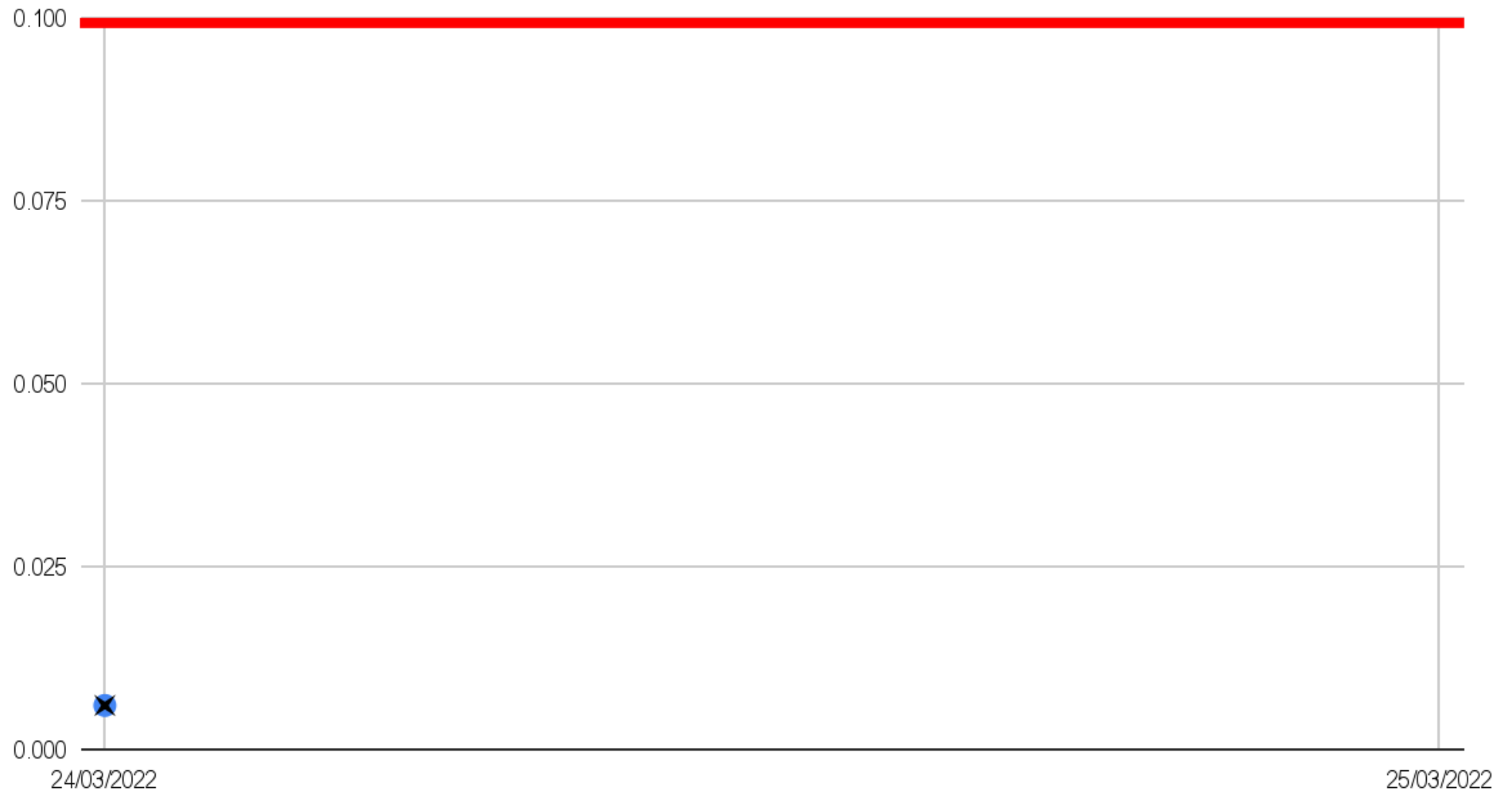
● Sunraysia Treated Water Tank Chloroacetic Acid (mg/L) ✕ Sunraysia Hydrants Chloroacetic Acid (mg/L) 0.15 mg/L — Limit



● Sunraysia Treated Water Tank Dichloroacetic Acid (mg/L) ✕ Sunraysia Hydrants Dichloroacetic Acid (mg/L) 0.1 mg/L — Limit



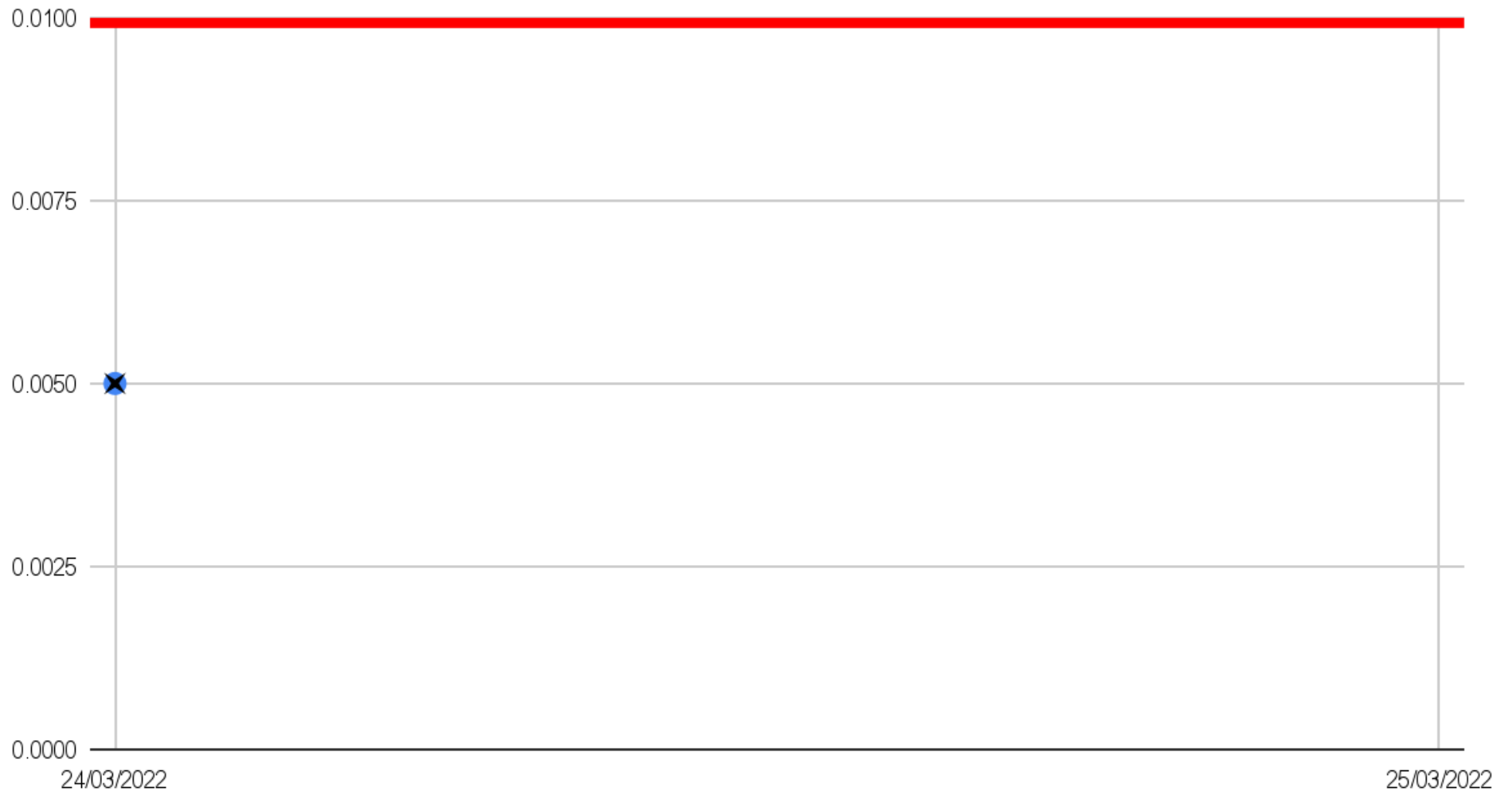
● Sunraysia Treated Water Tank Trichloroacetic Acid (mg/L) ✕ Sunraysia Hydrants Trichloroacetic Acid (mg/L) 0.1 mg/L — Limit



● Sunraysia Treated Water Tank Acid Soluble Aluminium (mg/L) ✕ Sunraysia Hydrants Acid Soluble Aluminium (mg/L) 0.2 mg/L ■ Limit



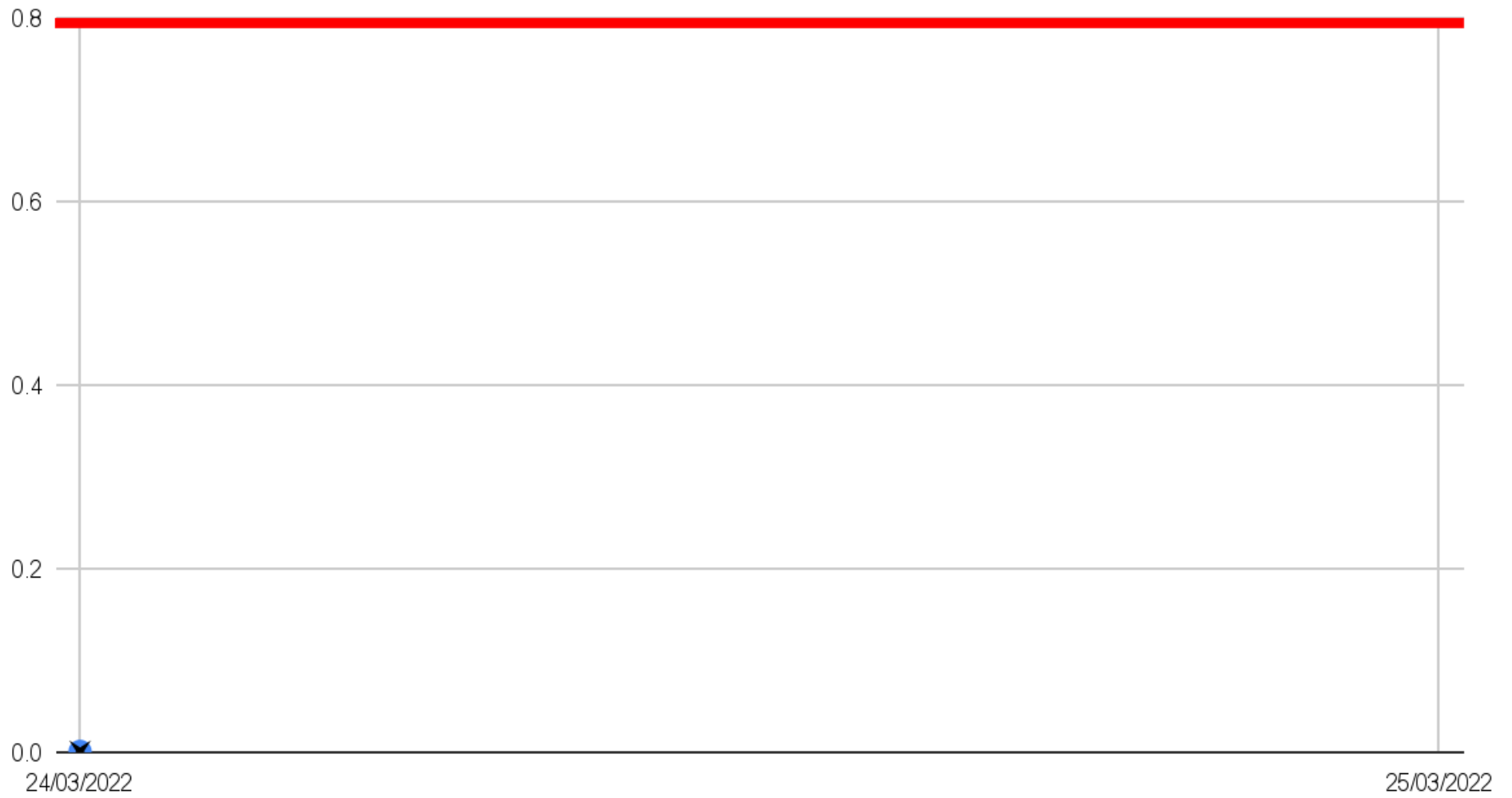
● Sunraysia Treated Water Tank Arsenic (mg/L) ✕ Sunraysia Hydrants Arsenic (mg/L) 0.01 mg/L — Limit



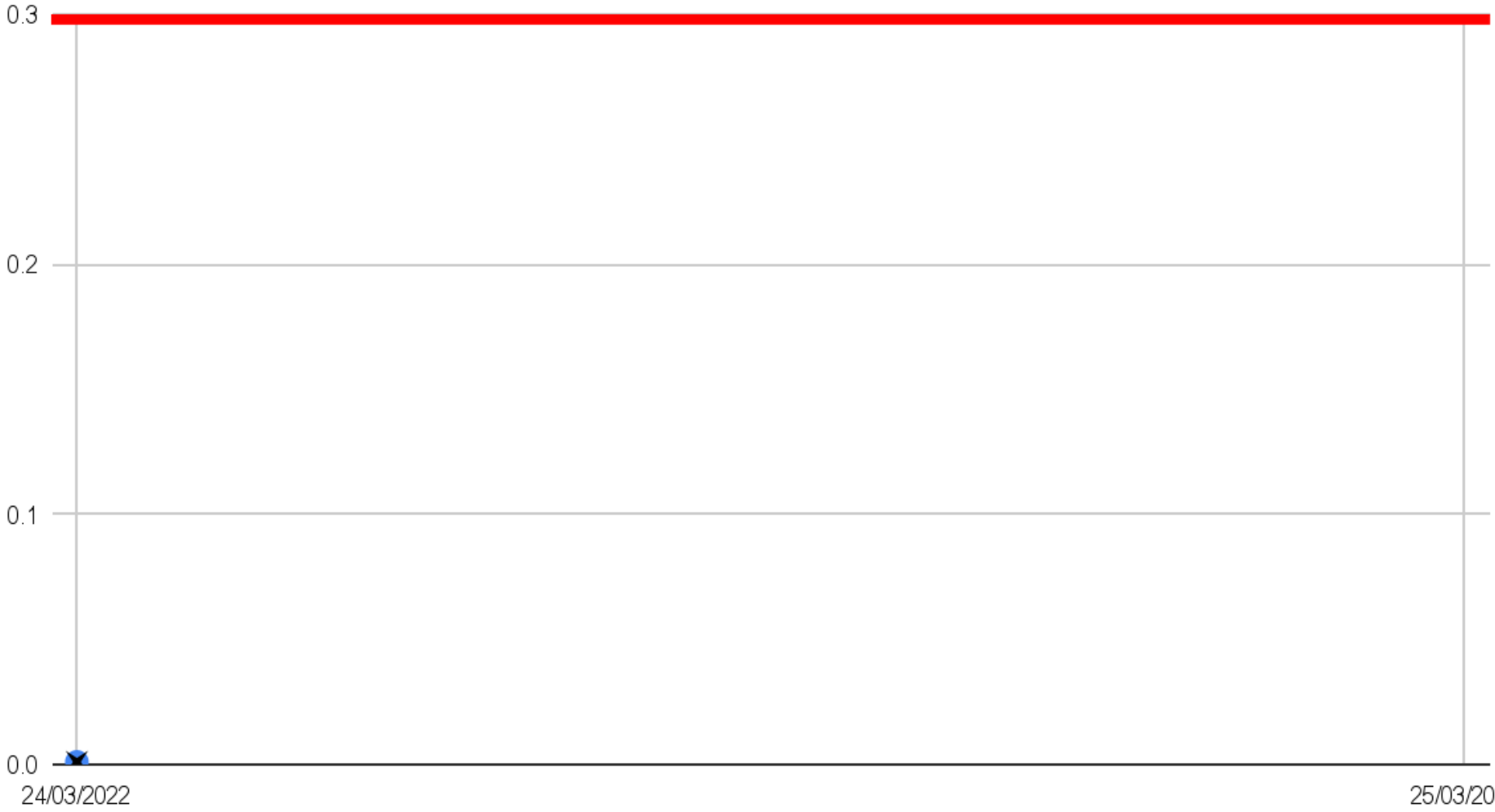
● Sunraysia Treated Water Tank Benzene (mg/L) ✕ Sunraysia Hydrants Benzene (mg/L) 0.001 mg/L — Limit

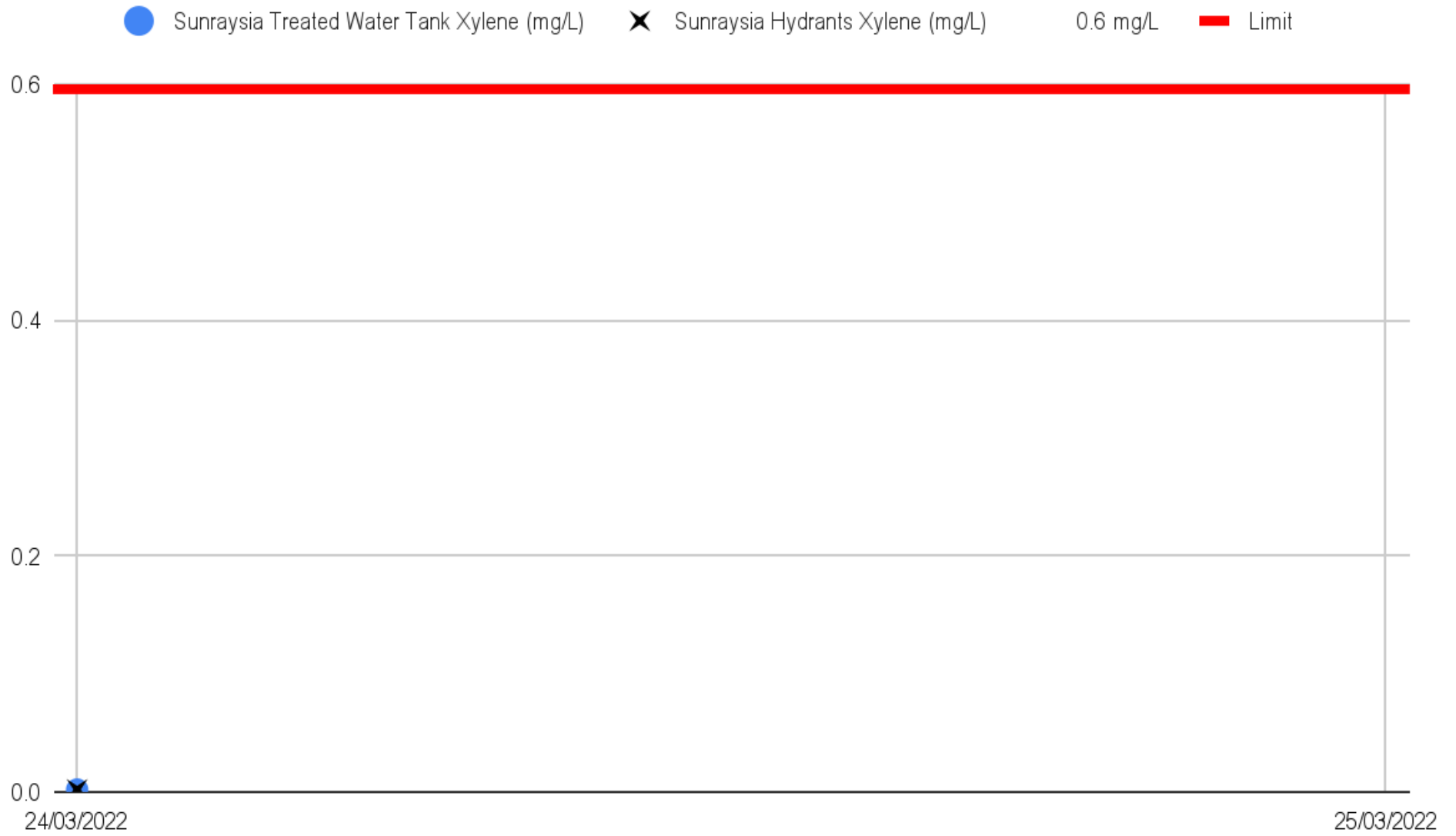


● Sunraysia Treated Water Tank Toluene (mg/L) ✕ Sunraysia Hydrants Toluene (mg/L) 0.8 mg/L — Limit



● Sunraysia Treated Water Tank Ethylbenzene (mg/L) ✕ Sunraysia Hydrants Ethylbenzene (mg/L) 0.3 mg/L — Limit

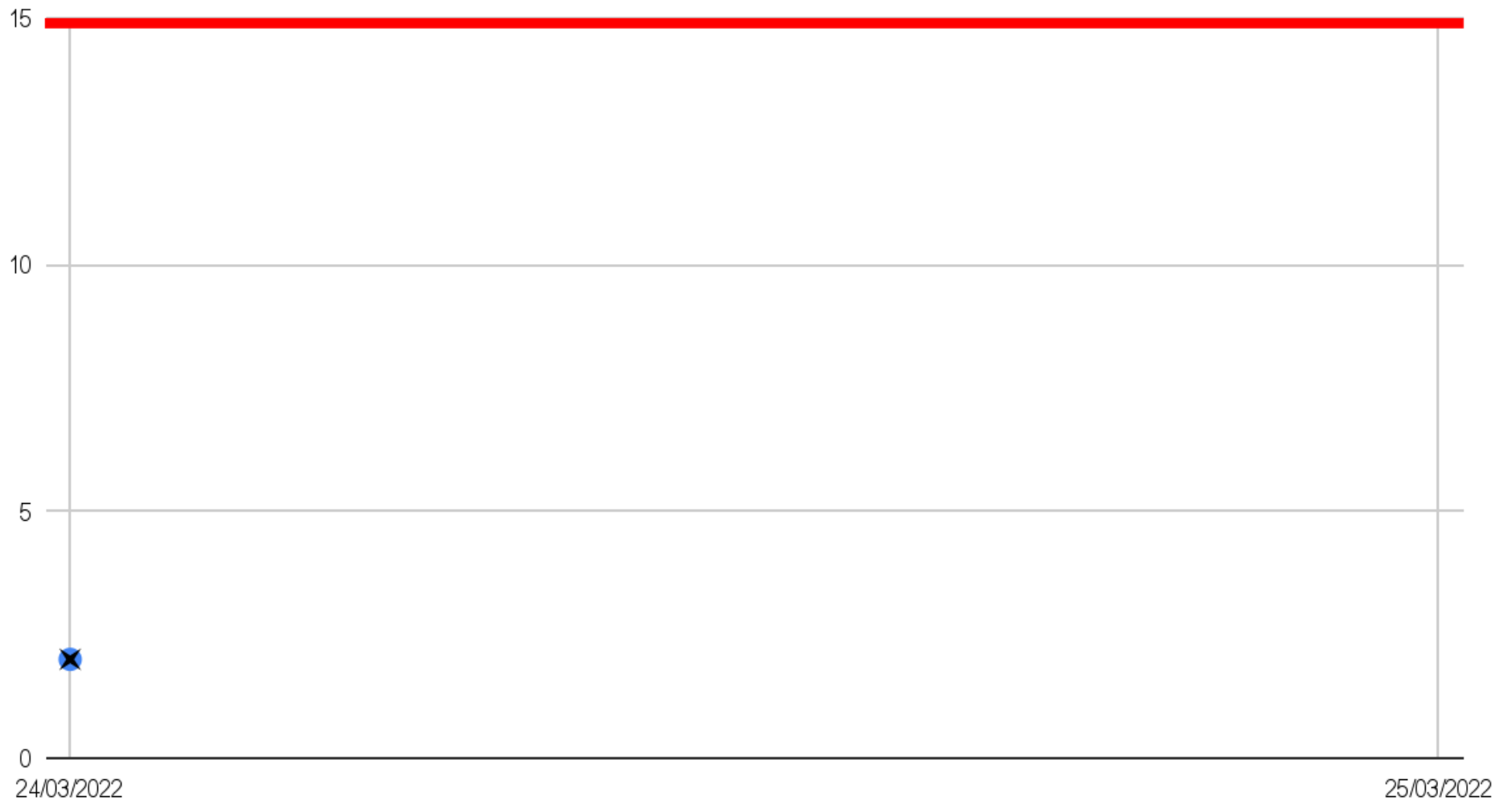




● Sunraysia Treated Water Tank Coliforms (CFU/100mL) ✕ Sunraysia Hydrants Coliforms (CFU/100mL) 1 cfu/100mL ■ Limit



● Sunraysia Treated Water Tank Colour (Pt/Co) ✕ Sunraysia Hydrants Colour (Pt/Co) 15 Pt/Co — Limit

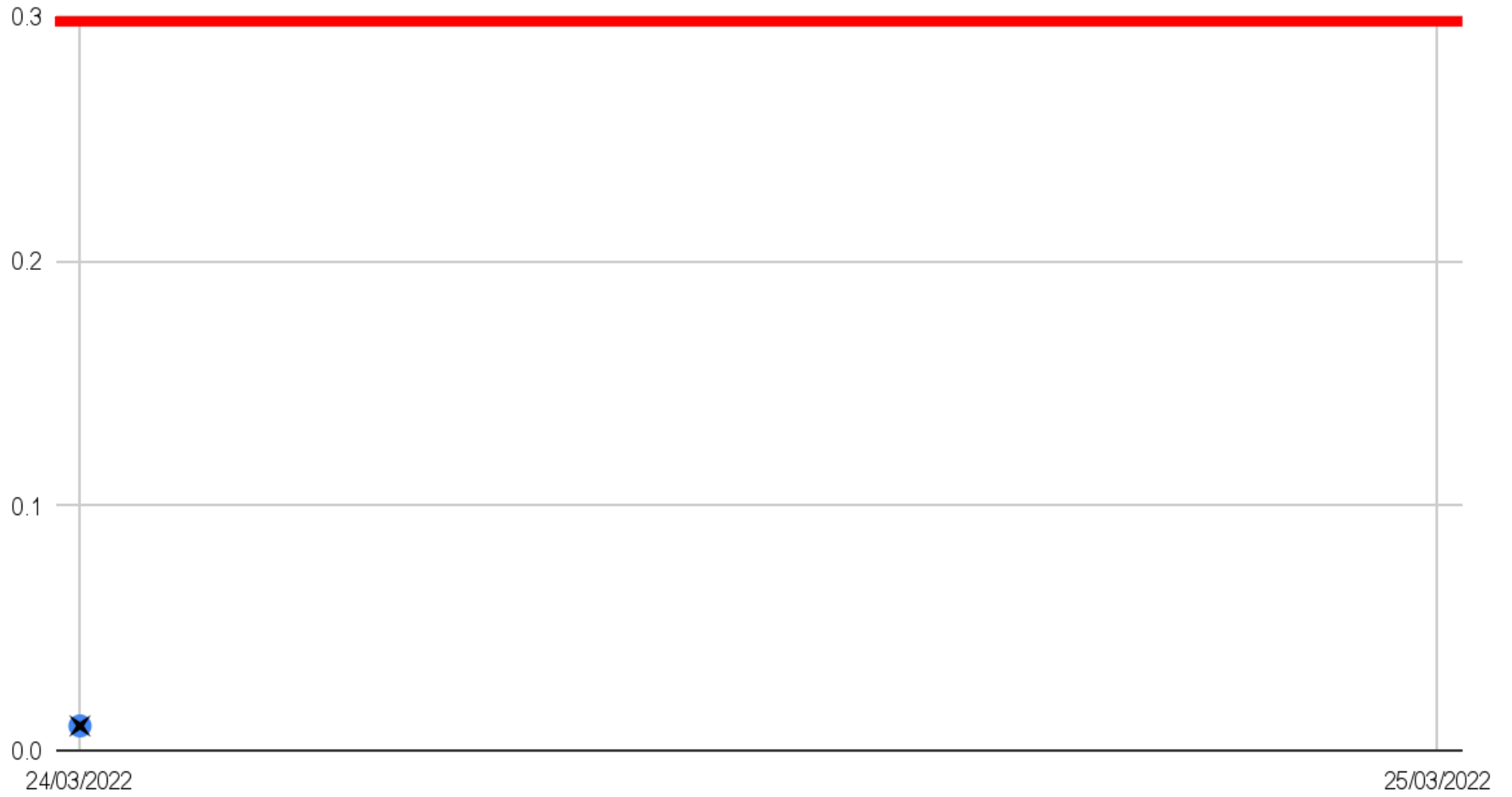




● Sunraysia Treated Water Tank E.coli (CFU/100mL) ✕ Sunraysia Hydrants E.coli (CFU/100mL) 1 cfu/100mL — Limit



● Sunraysia Treated Water Tank Iron (mg/L) ✕ Sunraysia Hydrants Iron (mg/L) 0.3 mg/L — Limit



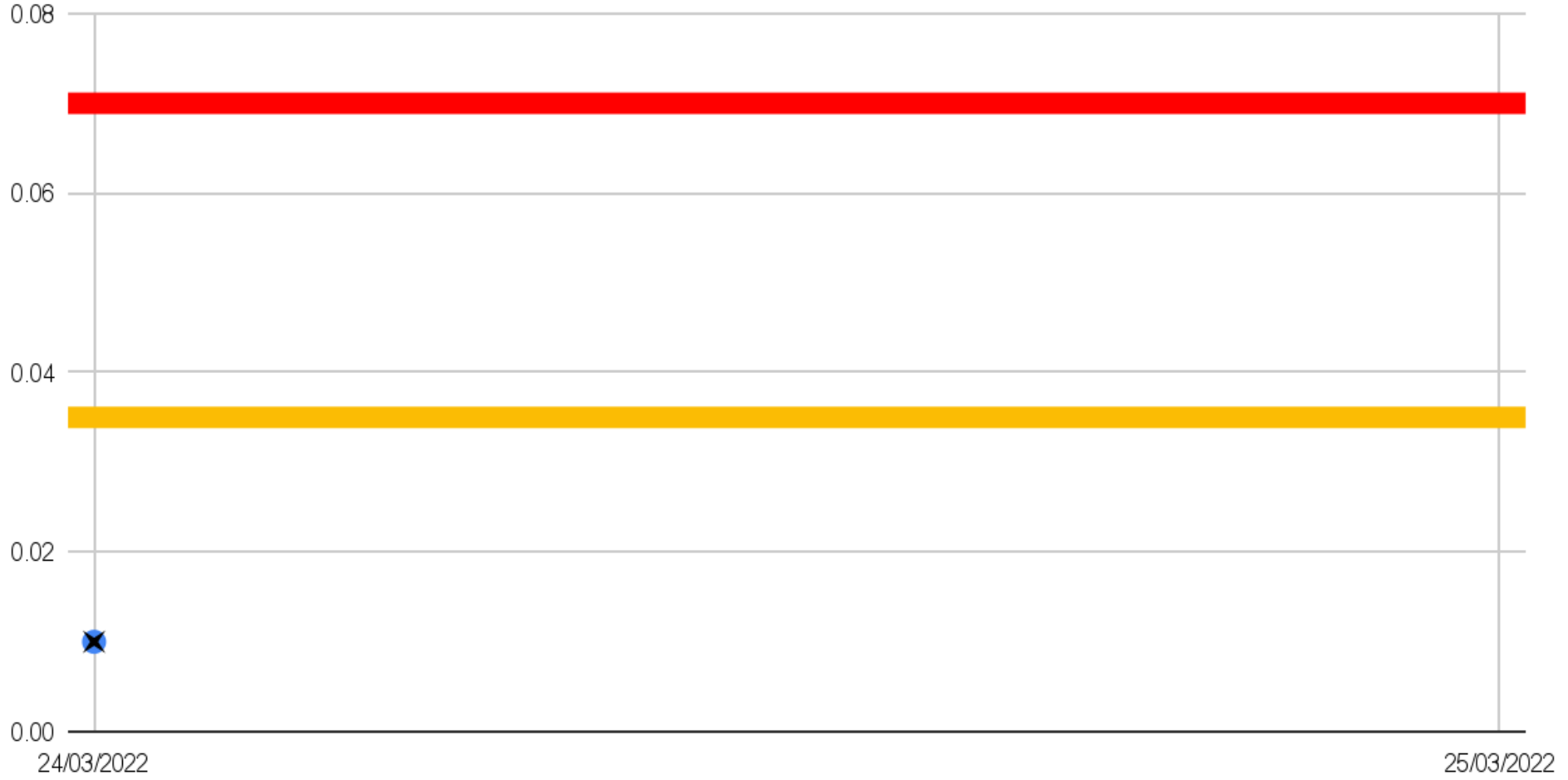
● Sunraysia Treated Water Tank Legionella spp (CFU/mL) ✕ Sunraysia Hydrants Legionella spp (CFU/mL) 10 cfu/mL ■ Limit



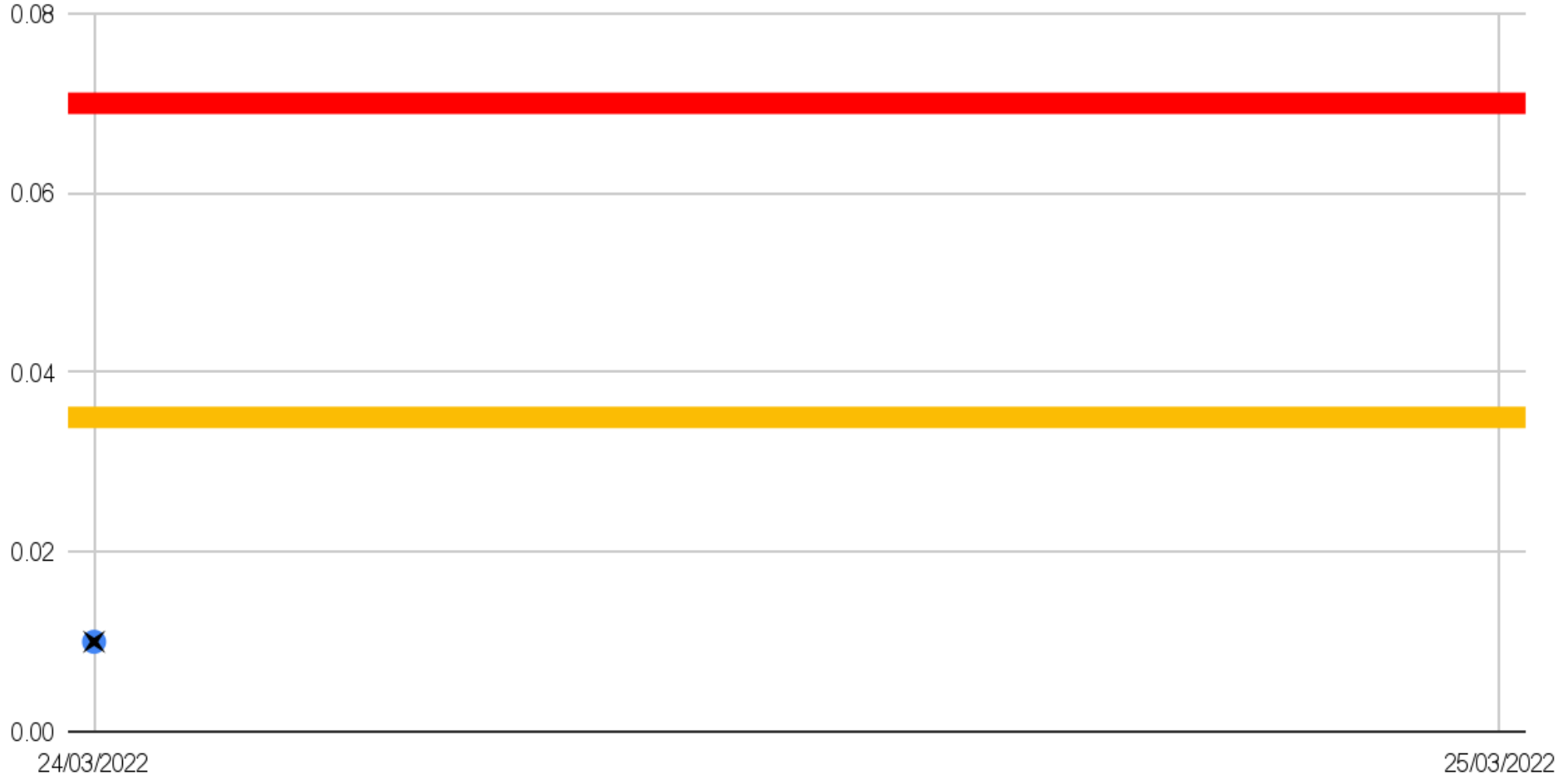
● Sunraysia Treated Water Tank Manganese (mg/L) ✕ Sunraysia Hydrants Manganese (mg/L) 0.5 mg/L — Limit



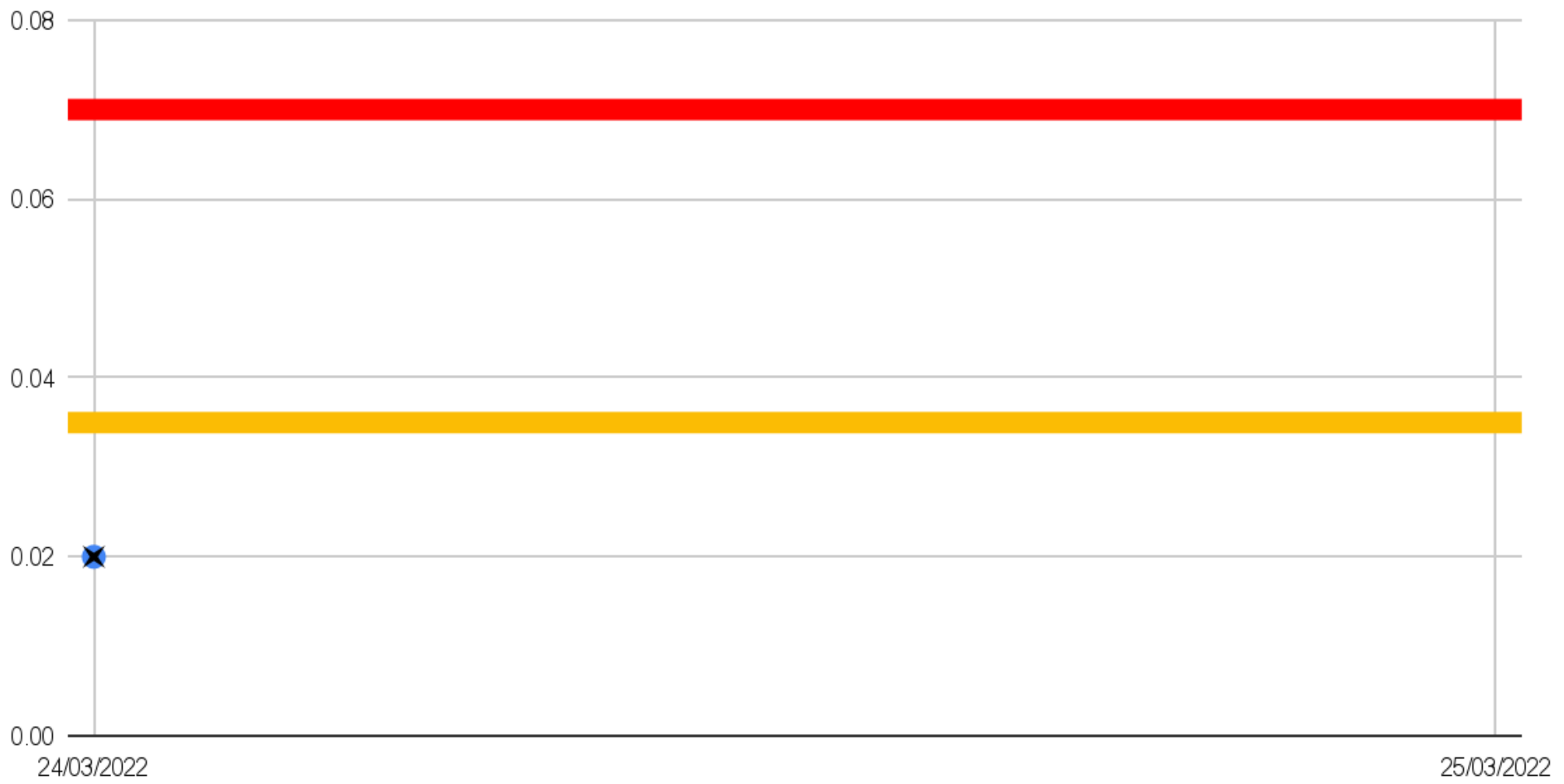
● Sunraysia Treated Water Tank PFOA ($\mu\text{g/L}$) ✕ Sunraysia Hydrants PFOA ($\mu\text{g/L}$) PFOA + PFOS 0.07 $\mu\text{g/L}$ ■ Limit
PFOA 0.035 $\mu\text{g/L}$ ■ Target



● Sunraysia Treated Water Tank PFOS ($\mu\text{g/L}$) ✕ Sunraysia Hydrants PFOS ($\mu\text{g/L}$) PFOA + PFOS $0.07 \mu\text{g/L}$ ■ Limit
PFOS $0.035 \mu\text{g/L}$ ■ Target

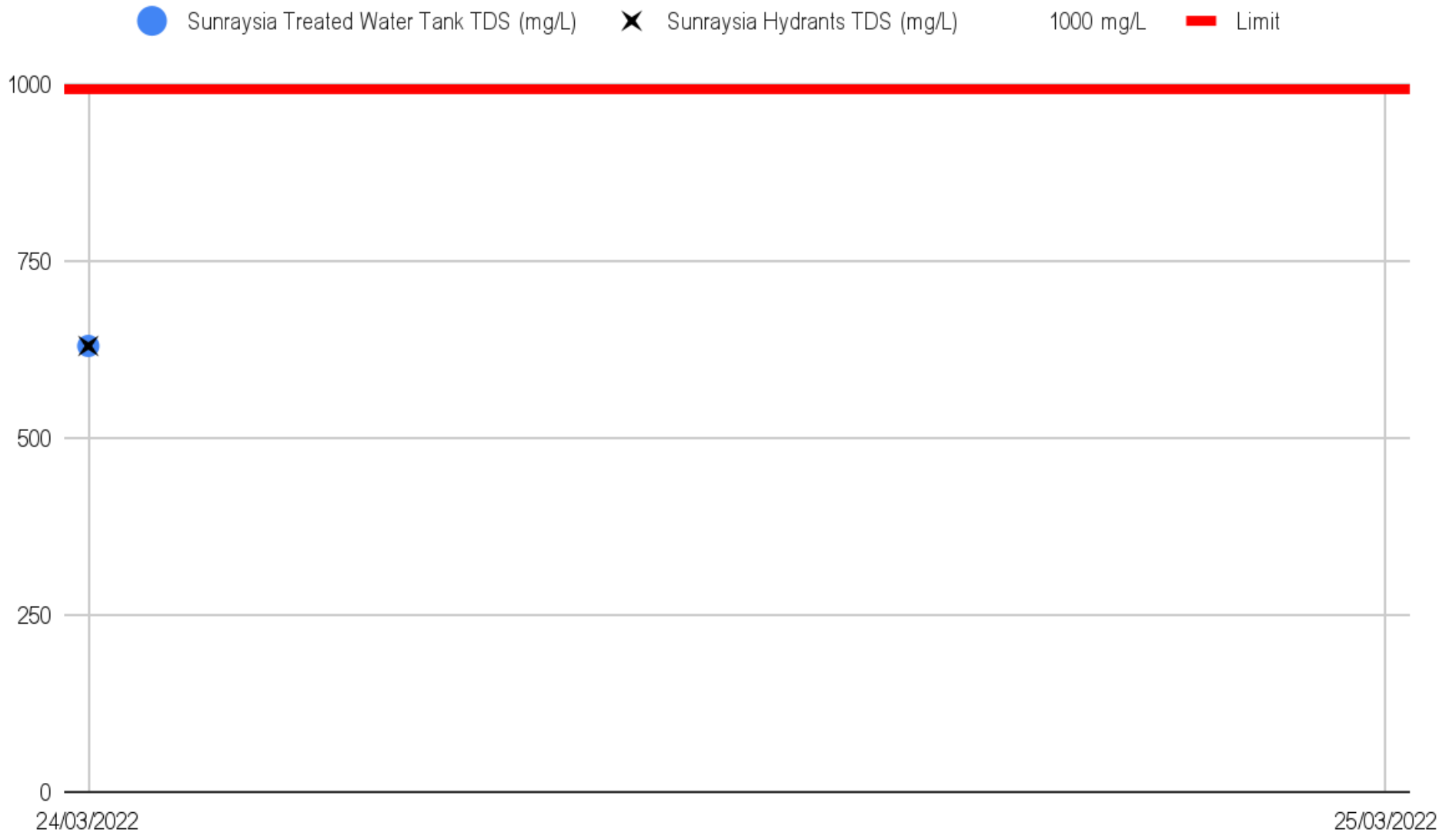


● Sunraysia Treated Water Tank PFHxS (µg/L) ✕ Sunraysia Hydrants PFHxS (µg/L) PFOS + PFHxS µg/L ■ Limit
PFHxS µg/L ■ Target



● Sunraysia Treated Water Tank pH (-) ✕ Sunraysia Hydrants pH (-) 6.5 Limit 8.5 Limit





● Sunraysia Treated Water Tank Total Chlorine (mg/L) ✕ Sunraysia Hydrants Total Chlorine (mg/L) 5 mg/L — Limit



● Sunraysia Treated Water Tank THM (mg/L) ✕ Sunraysia Hydrants THM (mg/L) 0.25 mg/L — Limit



