

Nitrification Action Plan

Site	Chemical	Goal	Yellow Flag		Red Flag	
			Trigger	Actions	Trigger	Actions
Entry Point	Total / Mono	4.0 / 3.6	3.5 / 3.1	1) Verify results 2) Check and adjust dose →Till levels return to normal	3.3 / 3.0	1) Verify results 2) Adjust dose →Till levels return to normal
	Free ammonia	0.05 - 0.15	0.2		0.25	
Average Water Age	Total / Mono	2.0 / 1.6	1.5 / 1.2	1) Verify results 2) Measure nitrite and nitrate 3) Adjust dose 4) Identify affected area (check upstream and downstream) 5) Flush area and/or tank 6) Increase monitoring 7) Flush dead ends →Till levels return to normal	1.0 / 0.8	1) Verify results 2) Measure nitrite and nitrate 3) Adjust dose 4) Identify affected area (check upstream and downstream) 5) Flush area and/or tank 6) Flush dead ends 7) Consider boosting 8) Convert to Free Chlorine →Till levels return to normal
	Free ammonia	0.2	± 25%		± 50%	
High Water Age	Total / Mono	1.0 / 0.8	0.7 / 0.5		0.5 / 0.4	
	Free ammonia	0.25	± 25%		± 50%	

Nitrite/Nitrate

Site	Chemical	Baseline	Yellow Flag		Red Flag	
			Trigger	Actions	Trigger	Actions
Entry Point	Nitrite	0.025	>0.03	1) Verify results 2) Increase monitoring 3) Identify source changes IF confirmed-modify BL 4) Identify area 5) Flush area and/or tank →Till levels return to normal	>0.05	1) Verify results 2) Identify affected area 3) Flush 4) Drain or Disinfect tank 5) Perform free chlorine burn →Till levels return to normal
	Nitrate	1.5	>1.7		>2.0	
Source water(s)	Nitrite	0.025	>0.03		>0.05	
	Nitrate	1.5	>1.7		>2.0	
Blended water	Nitrite	0.025	>0.03		>0.05	
	Nitrate	1.5	>1.7		>2.0	

