

3D TRASAR™ Technology for Post-Treatment Program

From the experts you trust



NALCO  **Water**
An Ecolab Company

3D TRASAR™ Technology for Post-Treatment Program



You can rely on the 3D TRASAR Technology for Post-Treatment program to maintain control and optimize your wastewater applications. Like all high-performing programs, 3D TRASAR Technology for Post-Treatment performs best when properly installed and maintained.

To provide customers with a worry-free 3D TRASAR experience from day one and beyond, Nalco Water uses a single-point solution known as Total Care Service.

Customer Benefits

Total Care Service provides you with:

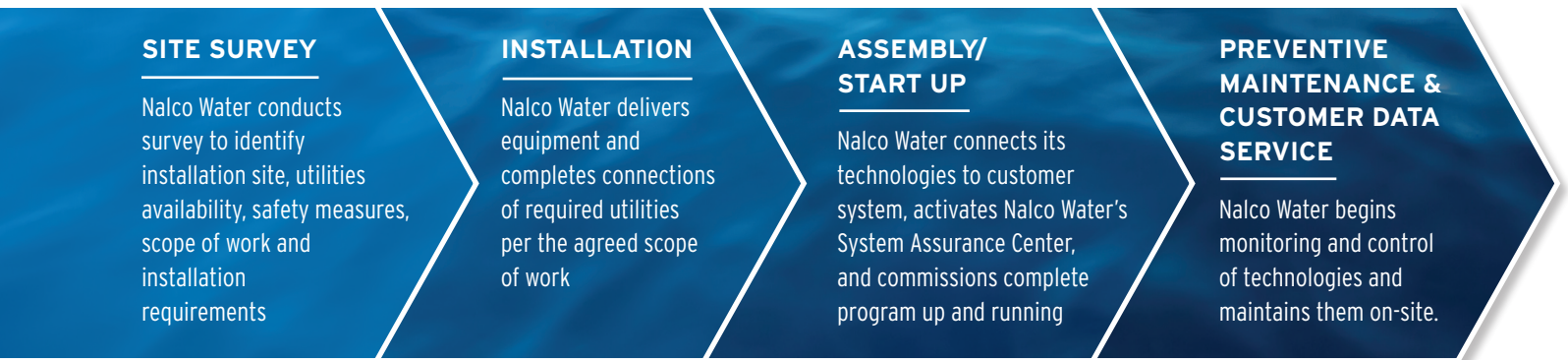
- A single-point service solution to help you save time and focus on your operations
- Peace of mind with quality services provided by Nalco Water's highly trained and certified technicians
- Optimized performance of equipment and system
- Free updates of all Nalco Water-approved hardware and software
- System performance assurance through:
 - Reduced system down time and operating interruptions
 - Reduced risk of chemical under-/over-feed conditions
 - Real-time visibility to key operating parameters
 - Proactive system monitoring and alarm management
 - Personal service delivered on-site to fix system issues

Program Inclusions:

- Pre-sale site survey
- Installation and assembly/start-up
- Preventive maintenance service
- General repair service
- Decommissioning service
- Customer data and System Assurance Center

How Does Total Care Service Work with the 3D TRASAR™ Technology for Post-Treatment Program?

Our goal is to make it easy for customers to administer their 3D TRASAR programs. Your Nalco Water account manager will develop a custom service plan for your 3D TRASAR Technology for Post-Treatment program. With your approval of the service plan and schedule, Nalco Water will schedule the service events and, if required, will dispatch certified technician(s) to complete the service on-site.



Total Care Service Scope

SERVICES	ACTIVITY HIGHLIGHTS	PRICING
Installation	<ul style="list-style-type: none"> • Conduct Nalco Water standard work site safety assessment • Run water piping, draining, electrical and communication lines to the space of installation** • Secure the Nalco Water equipment to the ground or on wall • Supervise other installation work when applicable* 	<p>Standard installation included in program pricing</p> <p>Non-standard installation shall be priced based on scope of work</p>
Assembly/ Start-up (Commissioning)	<ul style="list-style-type: none"> • Assemble all Nalco Water equipment and components on-site • Connect power, water and communication lines to Nalco Water equipment* • Calibrate Nalco Water equipment • Set-up initial system set points • Configure and activate supplied technologies 	Included in program pricing
Preventive Maintenance	<ul style="list-style-type: none"> • Check, clean and calibrate sensors and probes • Check for leaks and calibrate equipment • Repair or replace components as needed • Perform maintenance per specific application requirements 	Included in program pricing
Customer Data Service	<ul style="list-style-type: none"> • 24/7/365 remote monitoring and alarm management through Nalco Water's System Assurance Center • Post-installation and initial system health check • Inventory management of chemicals • Customer access to myNalco.com and Nalco Water enVision websites for system performance dashboard and key operating parameters 	Included in program pricing

**Total Care Service for 3D TRASAR Technology for Post-Treatment has a standard scope designed to ensure proper set-up and optimal ongoing operation of its equipment and technologies. For service items that are outside of the standard scope, Nalco Water may bill the customer separately.*

*** Non-standard installation services are not included in the program pricing and shall be billed extra based on scope of service.*

Standard Maintenance Package in a 3D TRASAR™ Technology for Post-Treatment Program

GENERAL CHECKS	MONTHLY	BIANNUAL
Check with wastewater operations manager for any problem points in wastewater system that need attention	✗	
Check with local operator for jar tests run during the day. Provide training on jar tests and make recommendation for any future requirements	✗	
Check with local operator for any findings or issues that need attention	✗	
Check each Nalco Water system and ensure changes made to Nalco Water systems are working correctly with customer's wastewater systems	✗	
Check for inventory levels. Inform customer when inventory levels are low and facilitate order placement	✗	
PERFORMANCE-BASED 3D TRASAR DAF	MONTHLY	BIANNUAL
Calibrate cell fouling and pH meter	✗	
Verify operation of ultrasonic cleaner and air injection system	✗	
Drain air pressure regulator taps	✗	
Manually back-flush sample line	✗	
Clean turbidimeter using brush and a mild acid/caustic solution	✗	
Review and confirm configuration and control settings	✗	
Check all piping, valves, wiring etc., to ensure the integrity of each is sound		✗
Replace/clean filter, strainers and gaskets		✗
Inspect ultrasonic probe and replace if necessary		✗
Inspect system for leaks and operation	✗	
Check feed pump drawdown rate/s		✗
Replace/clean filter, strainers and gaskets		✗
Check all piping, elbows, valves, wiring and connections to ensure that the integrity of each is sound		✗
FLOW-BASED 3D TRASAR FOR WASTEWATER	MONTHLY	BIANNUAL
Conduct draw-downs and verify product flowmeter operation and accuracy	✗	
Review and confirm configuration and control settings	✗	
Inspect flowmeters (OGM and AFM) and replace if necessary		✗
Replace/clean filter, strainers and gaskets		✗
Clean and calibrate pH probe (replace if needed)		✗
Inspect system for leaks and operation	✗	
Record instrument readings & alarms; investigate and correct all system alarms	✗	
Check feed pump drawdown rate(s)		✗
Inspect all wiring connections and terminations	✗	
Exercise control outputs and verify system response		✗
Verify/upgrade system firmware and software		✗
Test & verify remote communications	✗	
Verify control functions and retune loops (as needed)		✗
Verify proper system operation	✗	
ADVANCED POLYMER ACTIVATION SYSTEM (DRY)	MONTHLY	BIANNUAL
Verify operation of mixers and valves	✗	
Inspect and clean docking station using a soft brush	✗	
Visually inspect auger and polymer processing module; clean if necessary	✗	
Review and confirm configuration settings	✗	
Calibrate polymer addition rates; can be done on an as-needed basis as well		✗
Replace polymer processing module (once every 3 years).		
ADVANCED POLYMER ACTIVATION SYSTEM (LIQUID)	MONTHLY	BIANNUAL
Inspect and clean solenoid valves		✗
Verify polymer pump calibration	✗	
Inspect and clean water inlet strainer		✗
Inspect and clean polymer supply basket strainer		✗
Inspect and descale water heater		✗
Review and confirm configuration settings		✗

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