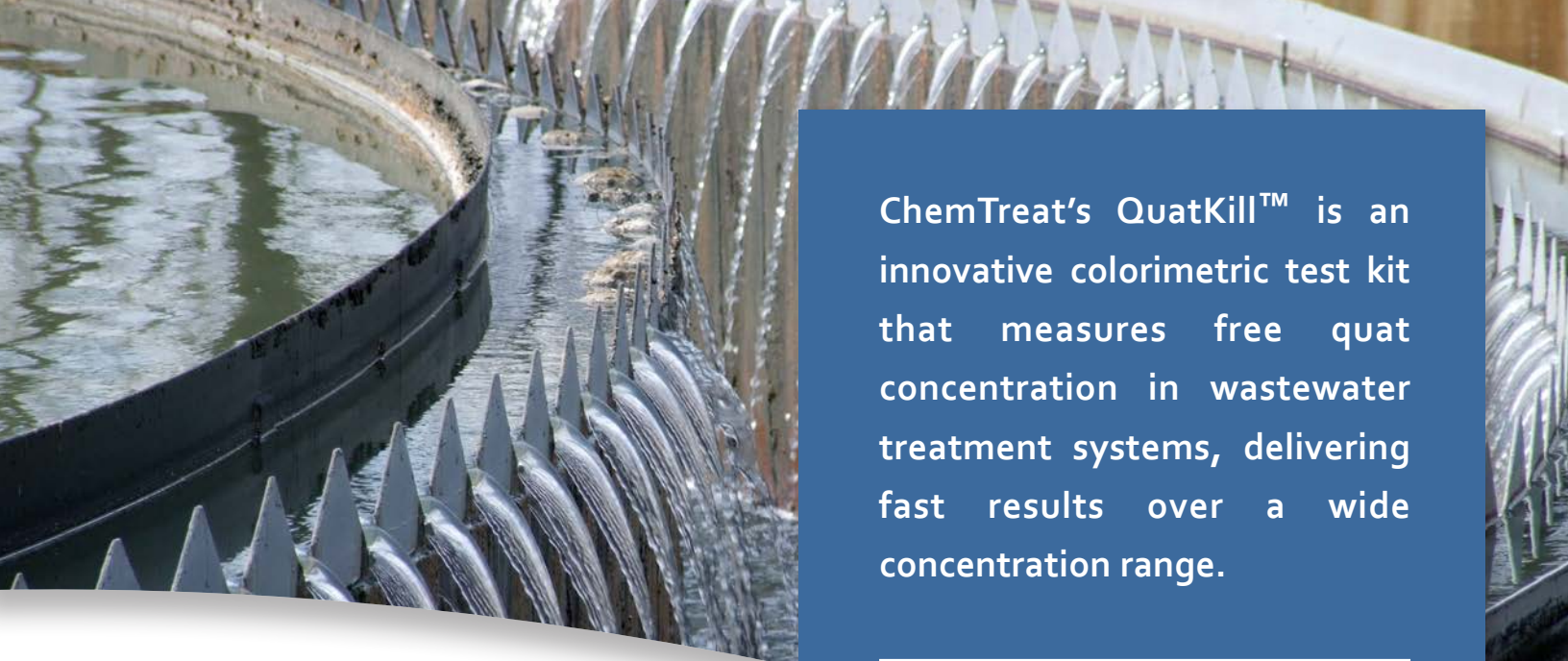


# QuatKill™

Quat Measurement and Neutralization



ChemTreat's QuatKill™ is an innovative colorimetric test kit that measures free quat concentration in wastewater treatment systems, delivering fast results over a wide concentration range.

## QK1000 Solution

QK1000 is a proprietary formulation that rapidly and efficiently neutralizes cationic biocides. When used in combination with QuatKill™, QK1000 provides rapid and complete neutralization of quats in wastewater or other industrial process water systems.

- Biodegradable
- Low environmental tox
- No TDS addition
- Not affected by ammonia
- Available in drums & totes
- Works on a broad range of cationics

## Treatment with QK1000

- Utilizes a simple pump and drum setup
- Provides no added solids to the treatment of water

- Measures free quat
- Wide testing range (1-50ppm)
- Provides quick results
- Small sample utilization (10mL)
- No known interferences





# Proven Results

## Prominent Packaged Foods Company's Wastewater Quat Problem Is Resolved By ChemTreat's Quat Test Kit & QK1000 Solution

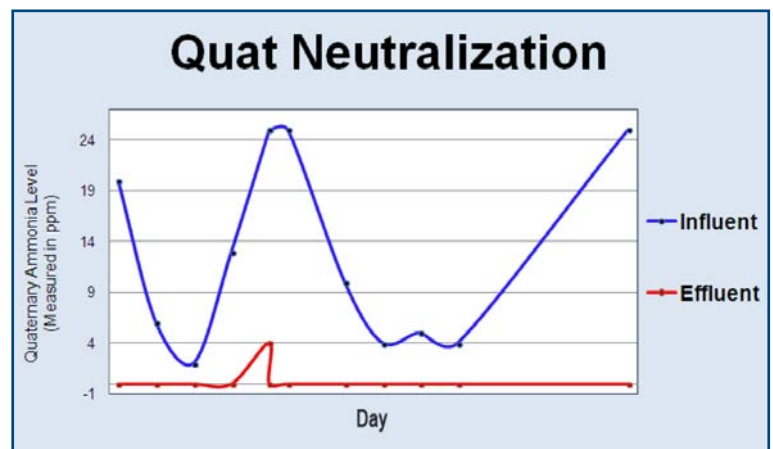
A leading food processing company had a problem. Their need to meet safety and cleanliness levels meant an increase in the use of biocides to satisfy these more restrictive standards. However, their ability to

effectively eliminate bacteria came with a reduction in needed bacterial action in their effluent wastewater system.

Non-neutralized quats in the wastewater at the company's NC food plant were eliminating needed digesters. Existing testing methods produced inaccurate quat measurements, meaning proper treatment was both wasteful, expensive, and created a conflict between the waste processing and cleaning departments.

Using ChemTreat's Quat Test and QK1000 treatment solution, quaternary ammonia levels in the Company's wastewater stream were effectively reduced to zero with the proper feed of QK1000. This simple down feed process at a 5X level created additional savings and kept wastewater system performance at a high level when compared with a more expensive, proposed clay-based solution.

Day	Quaternary Ammonia (ppm)			QK1000
	Influent	Effluent	Limits	Daily Feed Rates (GPD)
1	20	0	<0	5
3	6	0	<0	5
5	2	0	<0	5
7	13	0	<0	4
9	25	4	<0	3
9	25	0	<0	12
11	25	0	<0	12
13	10	0	<0	6
15	4	0	<0	6
17	5	0	<0	6
19	4	0	<0	6
21	25	0	<0	8



**QuatKill™**

