



WATER ENVIRONMENT ASSOCIATION OF TEXAS

Preserving & Enhancing the Water Environment of Texas

WEAT | 1825 Fort View Road Suite 108 | Austin, TX 78704 | 512.693.0060 | www.weat.org

WEAT Training Agenda Information Fact Sheet

Workshop Topic: "Details about Your Aeration Basin & Clarifier No One Told You About"
Series Number: Part 1
Credit Hours: 8 hours
Time: 8:00 AM to 5:00 PM
Instructors:
Location: City of Serman, Post Oak Wastewater Treatment Plant, 1800 E. FM 1417
Sherman, TX 75090

Time	Item
7:30 AM to 8:00 AM	Registration
8:00 AM to 8:15 AM	Workshop Introduction
8:15 AM to 10:00 AM Gary Sober Gary Sober	<ul style="list-style-type: none">• Aeration Basins Introduction• Flow/aeration patterns• Diffuser types
10:00 AM to 10:15 AM	BREAK
10:15 AM to 12:00 PM Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans	Definition of alkalinity <ul style="list-style-type: none">• Relationship between alkalinity and pH• pH (alkalinity) vs. nitrification rate• Nitrification activities and pH rates• The importance of alkalinity• Determining alkalinity needs for facility operations• Bio-available alkalinity• Hands on alkalinity testing and profiling
12:00 PM to 1:00 PM	CATERED LUNCH
1:00 PM to 2:30 PM Gary Sober Gary Sober Gary Sober Mary Evans	Activated Sludge sampling/process tests <ul style="list-style-type: none">• Settling test: Settleometer• Imhoff Cone: Variations and uses• Sludge judge• Alkalinity/DO profile
2:30 PM to 2:45 PM	BREAK





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2:45 PM to 4:45 PM

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Clarifiers and Settling Basins

- Rectangular clarifiers
- Circular clarifiers
- Lessons learned
- Sampling/process tests
- Flow patterns
- Sludge judging blankets
- Dissolved oxygen
- RAS/WAS
- Foam/scum
- MLSS/MLVSS

4:45 PM to 5:00PM

Mary Evans and
Gary Sober

Q&A and Discussion

