

UCMR Sampling

TCEQ Drinking Water Sample Collector Training
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UCMR Sampling Outline

- History = “*Why*”
- Sample Types = “*What*”
- Sample Sites = “*Where*”
- Applicability = “*Who*”
- Frequency = “*When*”
- Methods = *Gary’s talk later*



Why?



Unregulated Contaminant Monitoring Regulation (UCMR)

- Congress told EPA to seek new health risks
 - Look at occurrence and health risks
- EPA created UCMR program
 - Looks at occurrence through sampling program
 - Other programs look at health risk
- EPA created Contaminant Candidate List (CCL)
 - List of contaminants that are
 - Not regulated by national primary drinking water regulations
 - Known or anticipated to occur at PWS, and
 - May warrant regulation under SDWA
- Currently:
 - CCL2 contains 26 unregulated contaminants
 - Sampling will occur July 2007 through June 2010



UCMR: Regulatory status

- EPA will adopt rule in December (?)
 - Current version is 'proposed'
- Direct implementation by EPA
 - TCEQ has agreement to assist with implementation
 - But EPA will send letters to PWSs
 - Questions can be directed to Mike Howell at TCEQ (512/239-1108)



What?



UCMR Sample Types

- Two “sets” with three methods each
 - List 1 = Assessment Monitoring
 - List 2 = Screening Survey



UCMR List 1: Assessment Monitoring -

- Retardants
 - Pesticides and flame retardants
 - EPA Method 527
- Explosives
 - EPA Method 529
- Perchlorate
 - Maybe
 - Method 314 or....



UCMR List 2: Screening Survey

- Degradates
 - Herbicide degradate products
 - EPA Method 535
- Herbicides
 - Alachlor, etc.
 - EPA Method 525.2
- Nitrosamines
 - Potential disinfection byproducts
 - EPA Method 521



Where?



Sample Sites

- Entry point sampling, except...
- Nitrosamine samples are also collected at the “Maximum Residence Time” location in distribution
 - TCEQ will get addresses from DBP sites if possible



Who?

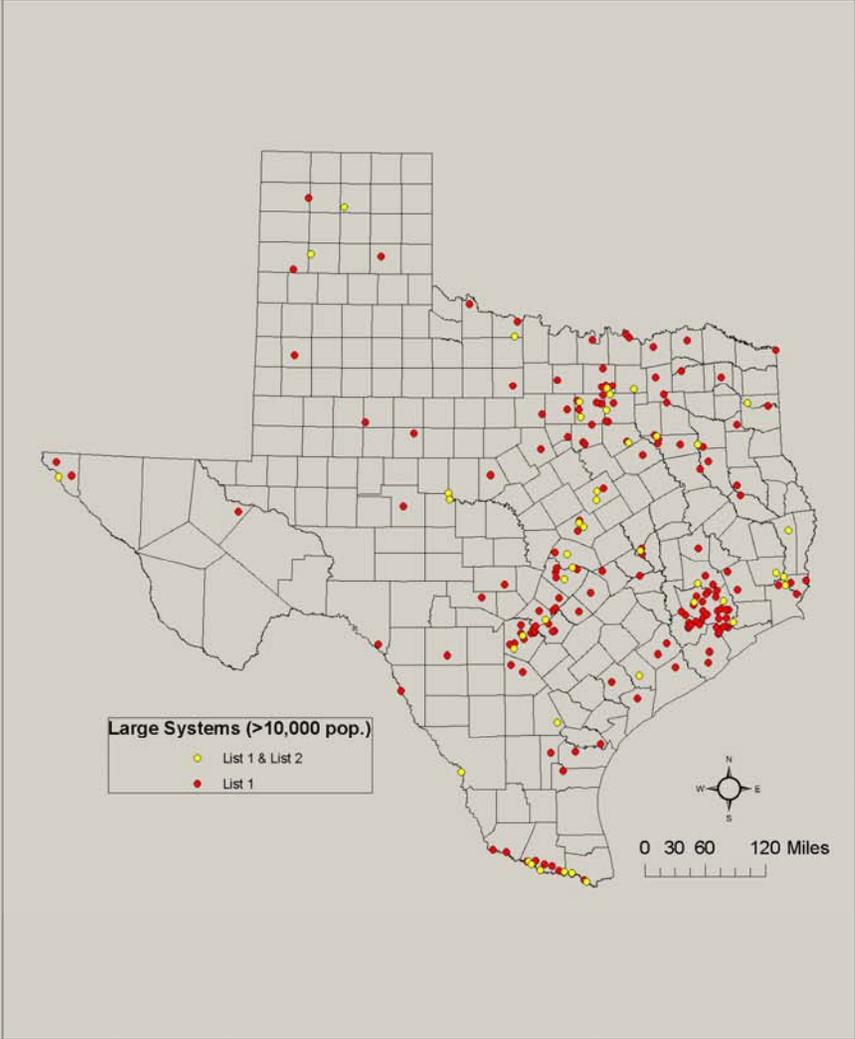
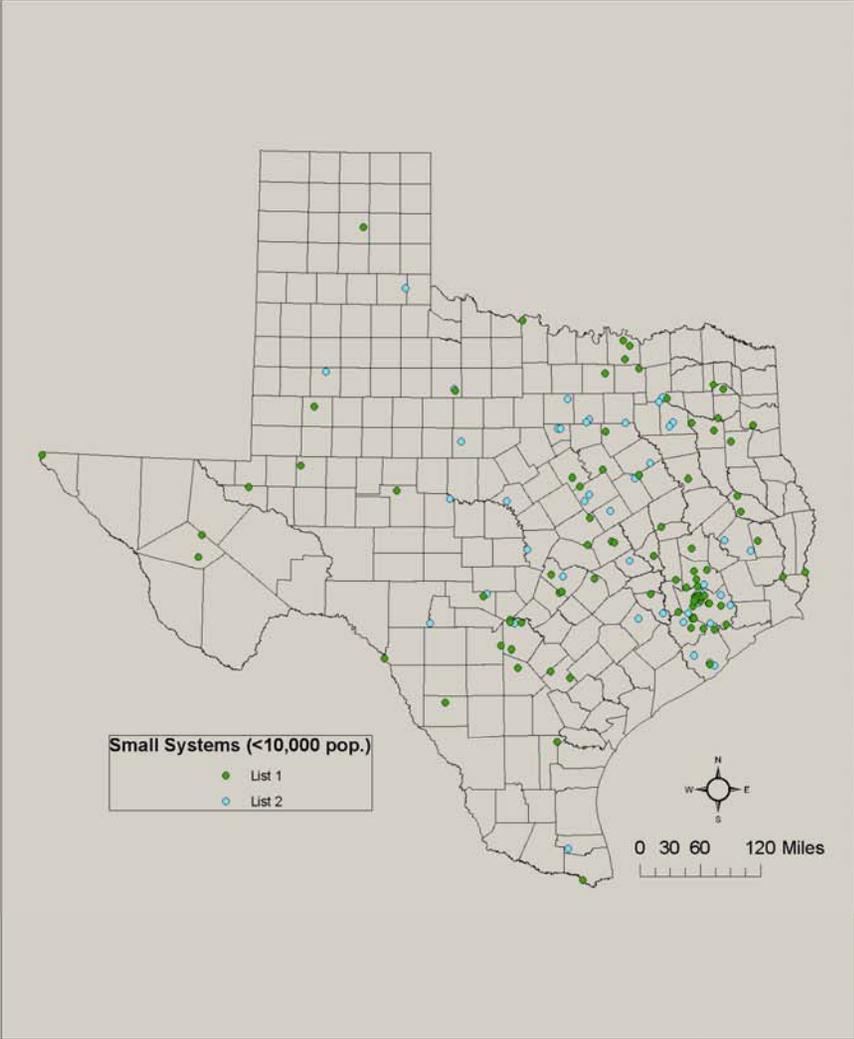


Subset of Systems required to monitor

- Large PWS (> 10,000 pop)
 - List 1
 - List 2
- Small PWS (< 10,000 pop)
 - List 1
 - List 2



Location of PWS Participating in UCMR2



When?



collected using the sterile technique
 required in Methods 314.1,
 331.0, or 332.0.

UCMR Schedule Plan

factors. What are the major
 differences between UCMR 1 and
 2?

2007		2008				2009				2010	
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
LIST 1											
Medium Systems				Small Systems				Large Systems			
LIST 2											
Smaller Systems				Larger Systems							



UCMR Frequency

- Samples based on OWNED Entry Points
 - Not Purchased Entry Points
- GW
 - 2 per year (biannual?)
 - two times, 6 months apart, during a 12-month period
- SW (and GUI) systems
 - Quarterly
 - four times, every 3 months, during a 12-month period



UCMR Frequency

- Goal: In the same week of the month
 - Example:
 - Groundwater system – one GW entry point
 - Samples the third week of July 07
 - Samples again the third week of January 08



Questions?



Bonus Slides



Guidance / Training / Treatment

- Contact EPA
 - EPA Home > Water > Ground Water & Drinking Water > UCM Home > UCMR 2 > Fact Sheet
 - EPA fact sheet (www.epa.gov)
 - EPA implementation contractor
 - Great Lakes Environmental Center (GLEC)
- <http://www.epa.gov/safewater/ucmr/ucmr2/factsheet.html>



Agency Assistance

Drinking Water Quality Team

Public Drinking Water Section

(512) 239-4691

<http://www.tceq.state.tx.us>



Field Values

■ Facility ID

- TP Treatment Plant
- WL Well
- SS Sampling Station
- OT Other
- DS Distribution System

■ Water Type

- GW Ground Water
- SW Surface Water
- GU Ground Water under direct influence of SW
- MX Mixed – any combo of GW, SW, GU

■ Sample Point Type

- EP Entry Point
- MR Maximum Residence Time



Large Systems

- AM and SS (At EP and MR)

- PWS ID PWS 0130001
- PWS Name City of Beeville
- Facility ID 00001
- Facility Name Well 1 or distribution
- Facility type Well (WL) or Distribution (DS)
- Water Type GW
- Sample Point ID 4567001
- **Sample Point Name Tap at Well 1, or Joe's home,
or 3901 Woodsfield**
- **Sample Point Type EP or MR**
- **Asso. MR Facility ID 00006**
- **Asso. MR Sample Point ID 4567006**



Large Systems (cont)

- AM only (Not in distribution, only at EP)

- PWS ID PWS 0010001
- PWS Name City of Palestine
- Facility ID 00001
- Facility Name Well 1 or distribution
- Facility type Well (WL) or Distribution (DS)
- Water Type GW
- Sample Point ID 4567001
- **Sample Point Name Tap at Well 1**
- **Sample Point Type EP**

