How to Prepare for Your 2016 Sanitary Survey

WARWS Spring Conference 2016

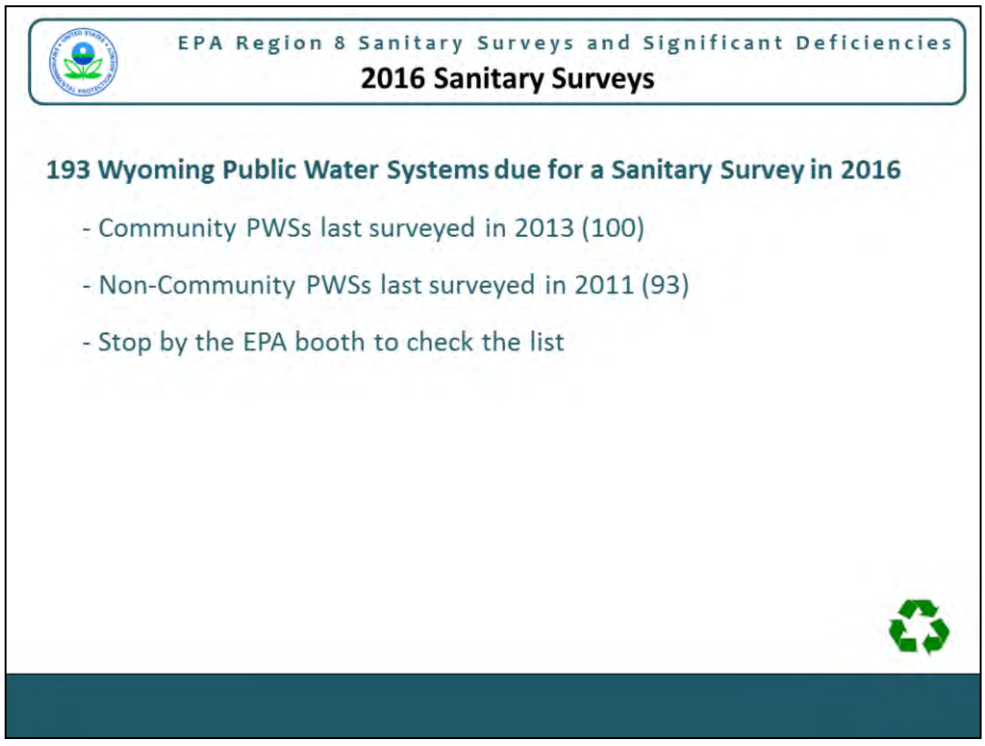
Sanitary Surveys:

Assess a water system's capability to supply safe drinking water.

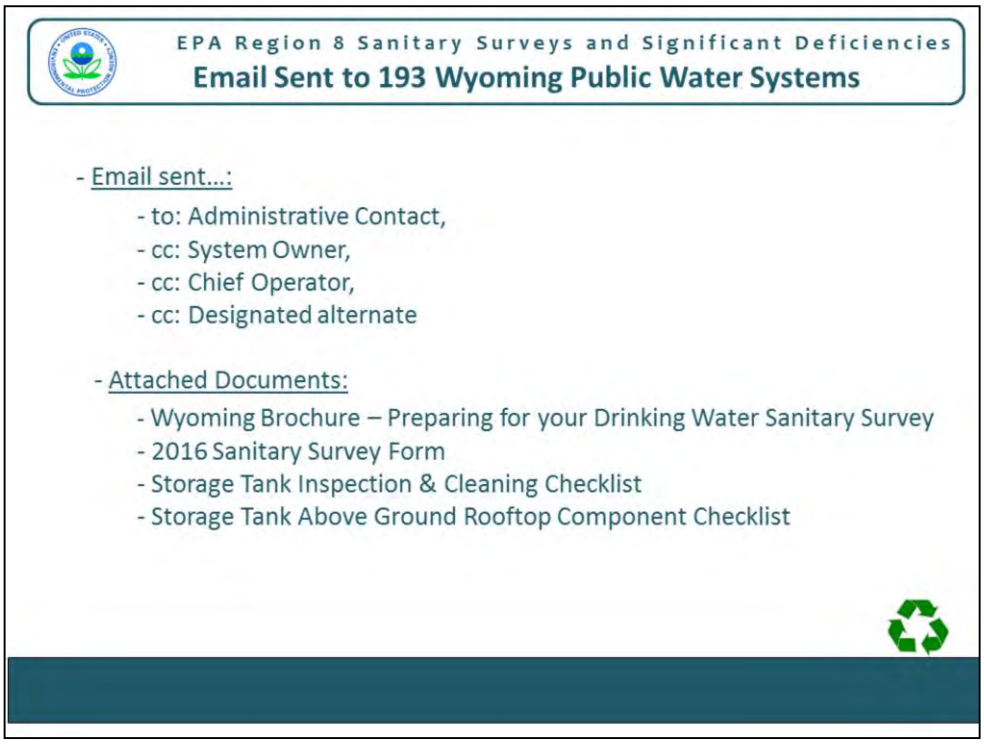
Definition of a Sanitary Survey:

On-site review of a public water system's:

- water source
- treatment
- distribution system
- finished water storage
- pumps & pump facilities
- monitoring & reporting
- system management & operation
- operator compliance with state requirements



Stop by the EPA booth - I have lists of the systems we are surveying this year



Notices were emailed out to 193 Wyoming Public Water Systems last week.

Sent to: - Administrative Contact

Copied to: - System Owner/Municipal Legal Representative

- Designated Operator

- Designated Alternate Operator

Attachments - Brochure - Preparing for Your Drinking Water Sanitary Survey

- 2016 Sanitary Survey Report Form

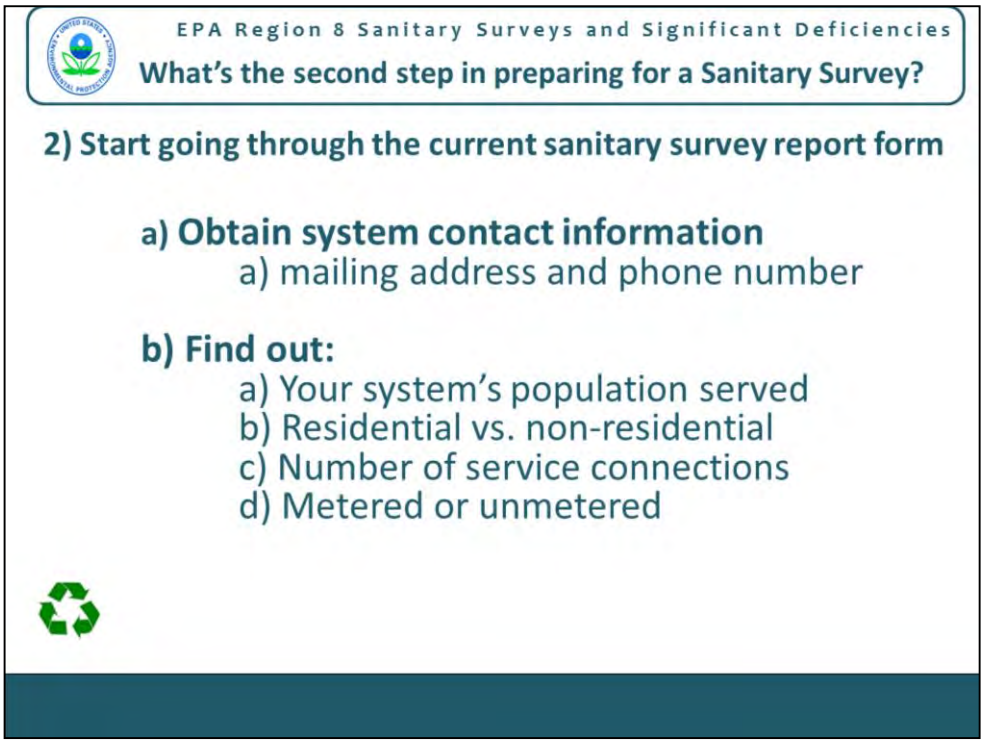
- Storage Tank Cleaning & Inspection Checklist

- Storage Tank Above Ground Rooftop Component Checklist

What's the first step in preparing for a sanitary survey?

Review your previous sanitary survey report for significant deficiencies and recommendations

If they haven't been addressed they will probably show upon this year's sanitary survey report.



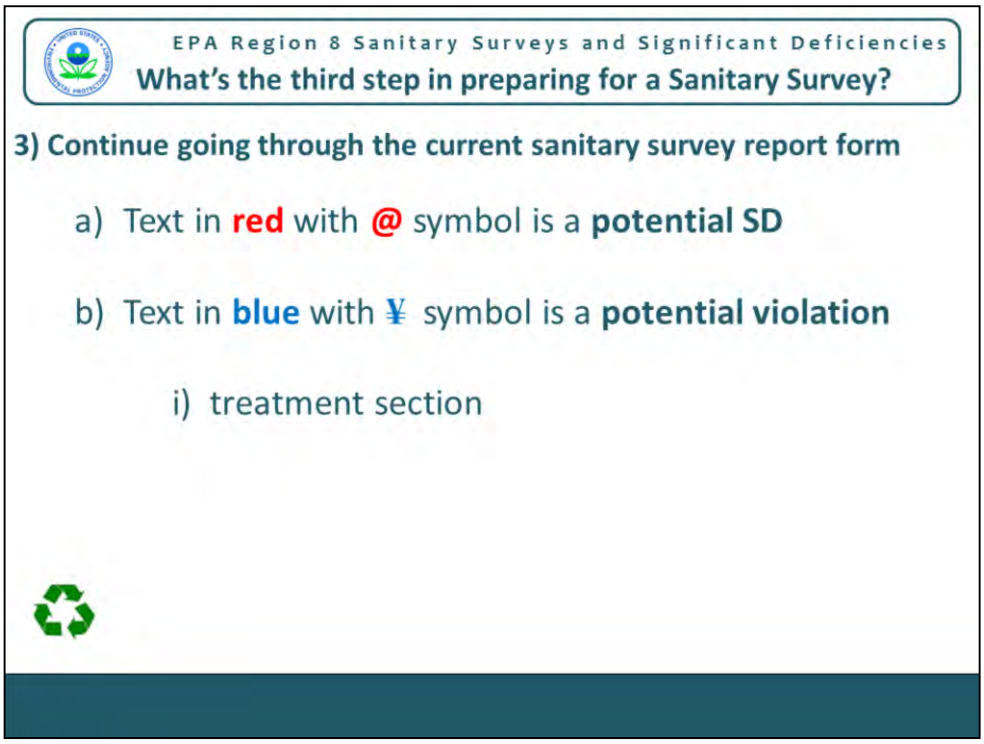
Start going through the 2016 sanitary survey form and answering questions and filling in the blanks about contacts and population served by your system.

We would like to get current accurate contact information:

- Accurate/up-to date name and mailing address for Administrative Contact
- Telephone number and email address for all contacts
- Administrative Contact,
- System Owner/Legal Representatives
- Chief Operator,
- Designated alternate

Find out the number of service connections and population served by your system:

- May have to contact Town Clerk or Utility Billing Rep.
- the number of residential billing accounts
- the number of commercial accounts
- is there an estimate of the population served?
- what is the basis for that estimate
- do you have an estimate of average daily production (gallons)?
- Indicate on the report form the source of your information



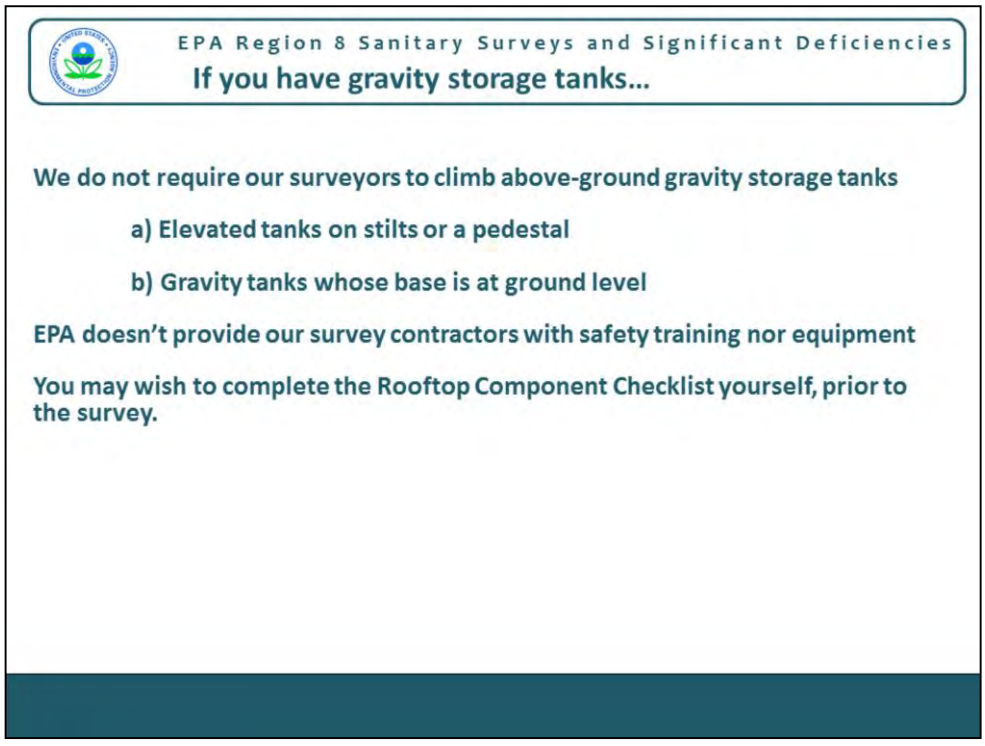
Continue going through the 2016 sanitary survey form looking for potential significant deficiencies that apply to your system.

Some sections won't apply to your system:

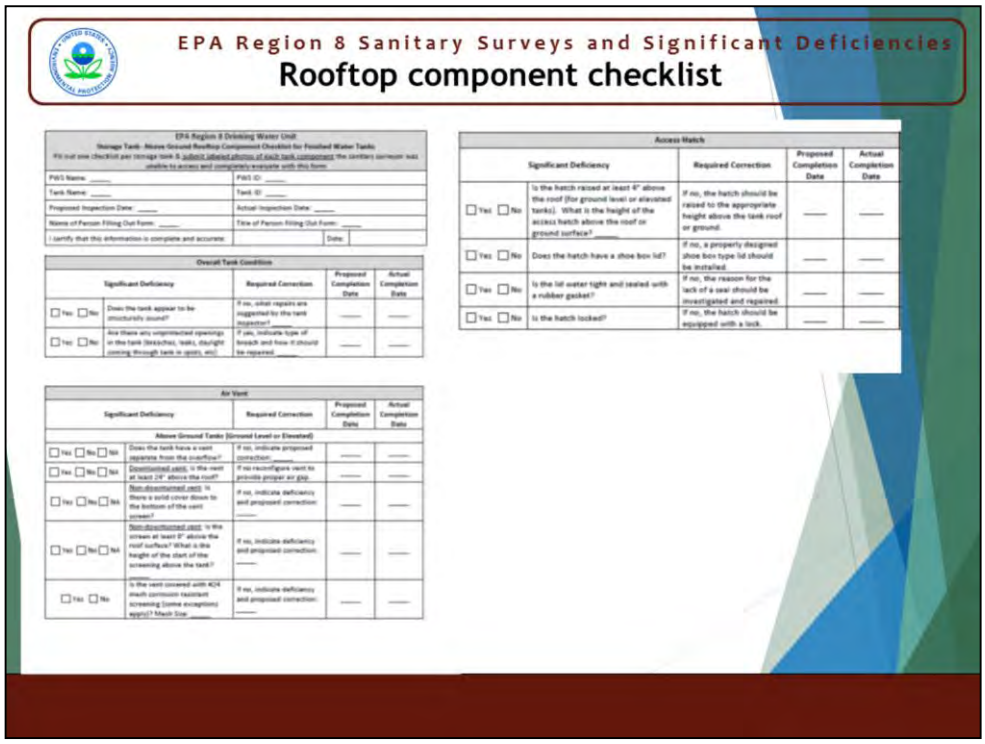
- SW sources for GW system
- GW sources for SW systems
- SW & GW sources for Consecutive systems

Some sections will require additional copies:

- more that 6 wells
- more than one spring or infiltration gallery
- mort than one surface water intake
- more than 6 gravity tanks
- more than one treatment facility
- more than one distribution system



We do not require our surveyors to climb storage tanks.

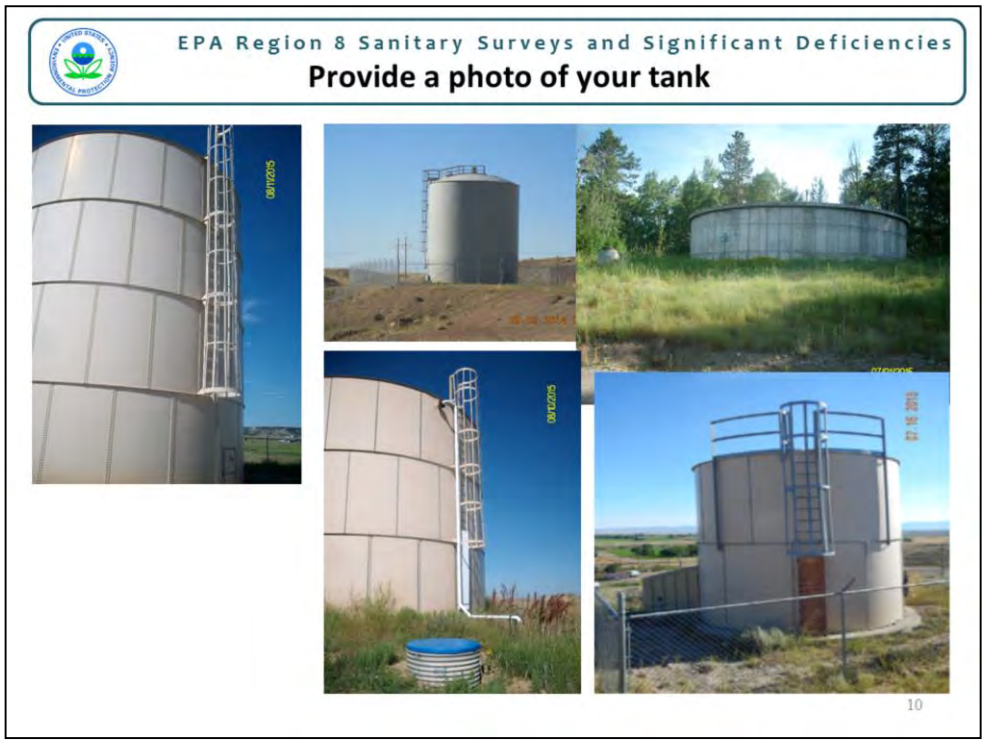


The Rooftop Component Checklist is a page and a half document.

It asks about structural integrity, vents and access hatches.

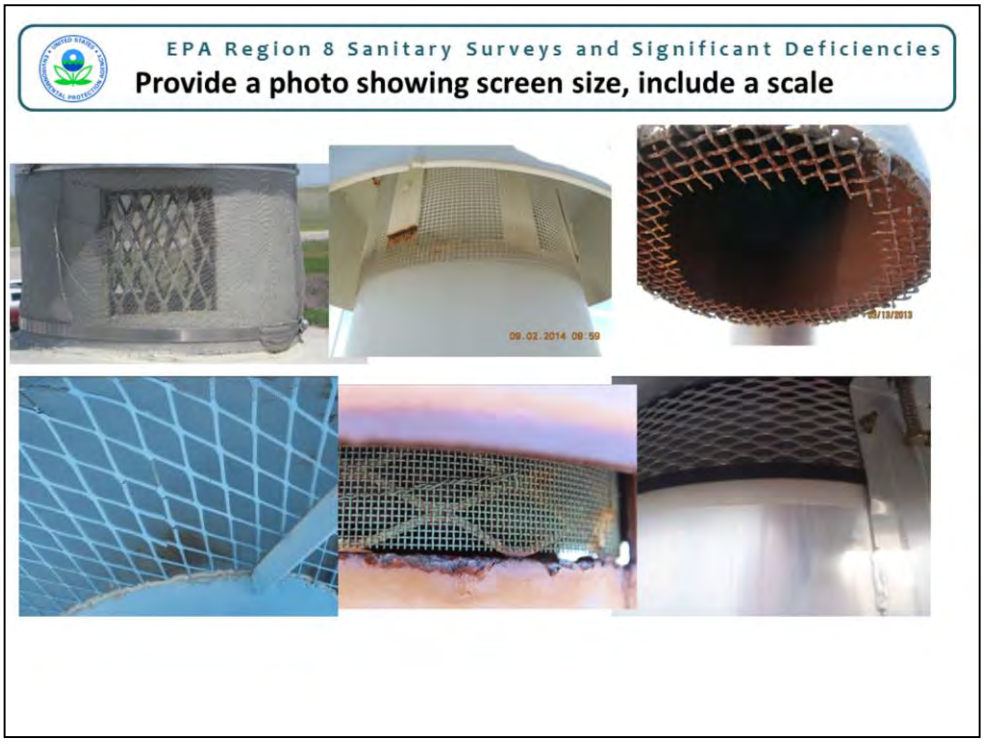
Please provide photographs (with tape measure or yardstick for reference) illustrating your answers on the form:

- Vent height above roof
- #24 mesh screen
- locked access hatch
- shoebox lid
- hatch height above roof
- gasket material on inside edge of hatch



Show us your tank.

Vent height above roof (with tape/yardstick)



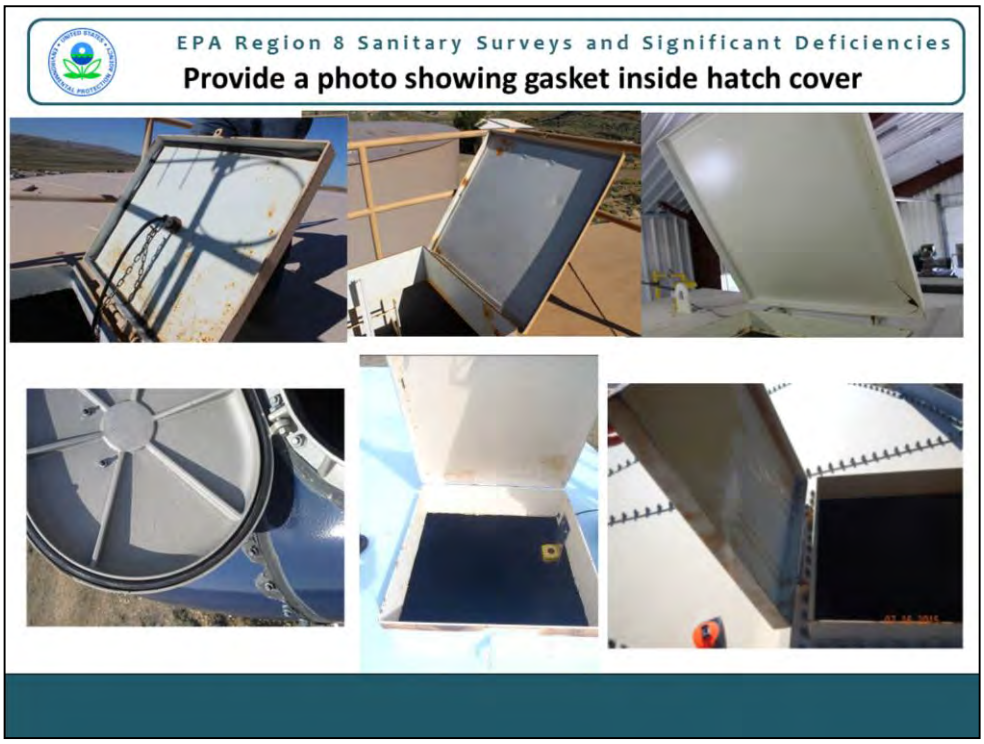
#24 mesh screen (with tape/yardstick/ruler)

Locked access hatch

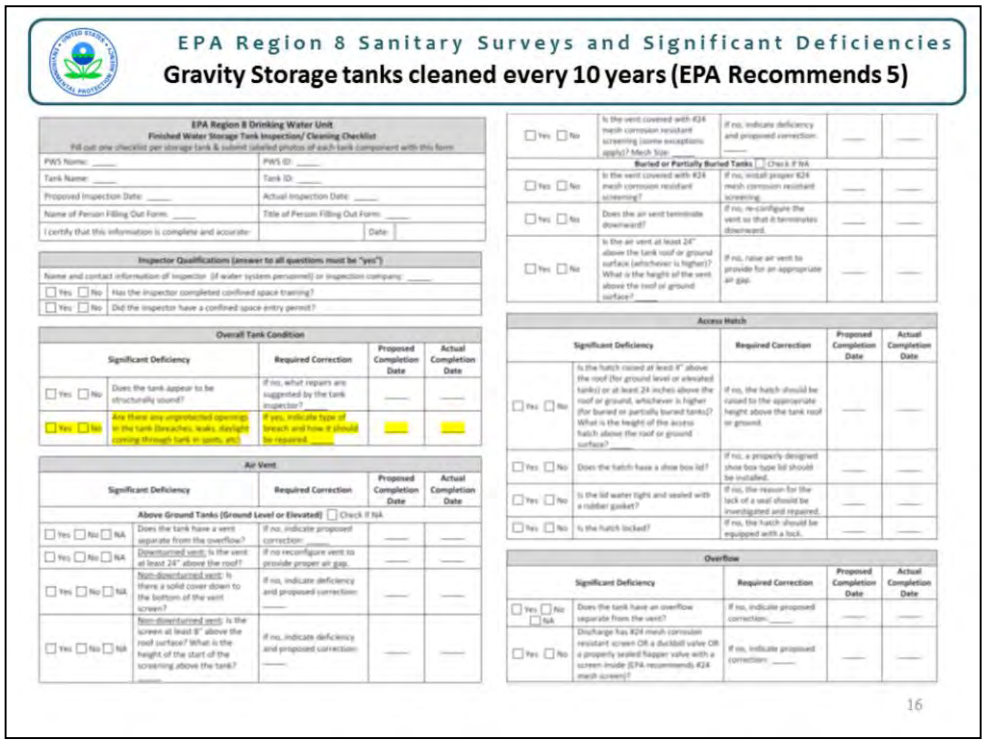
Shoebox lid

Shoebox lid

Hatch height above roof (with tape or yardstick)



Gasket material on inside edge of hatch



Storage tanks cleaned every 10 years (recommend every 5).

- Read the report (watch the video/DVD when you get it)
- Notify if animal carcasses/debris were/was found
- Region 8 needs to know right away what breaches were found & how they were repaired
- If EPA finds out about breaches later, you may have to re-inspect your tank for additional carcasses

Gravity Storage tanks cleaned every 10 years (EPA Recommends 5)

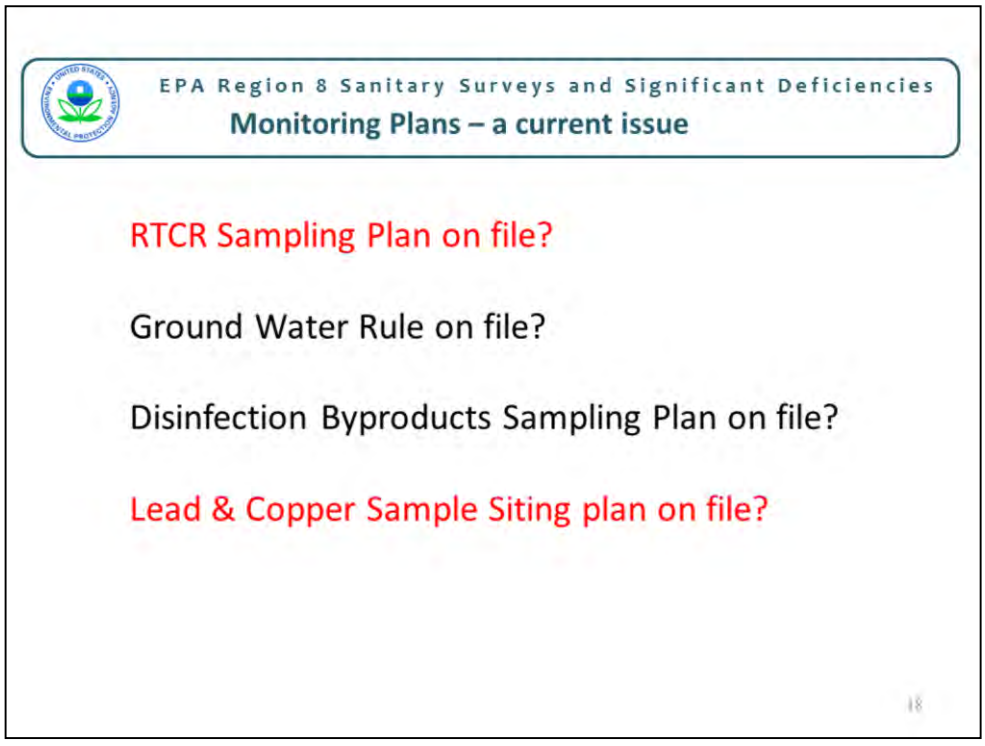
☐ Yes ☐ No	Overflow terminates between 12 and 24 inches above the ground surface? At what height does the overflow discharge? _____	If no, modify overflow to provide for an appropriate air gap.		
☐ Yes ☐ No	Overflow discharges over an inlet structure, splash plate, or engineered rip-rap?	If no, indicate proposed correction: _____	____	____
☐ Yes ☐ No ☐ NA	Does the overflow have an air gap of 1 or more pipe diameters above the entrance to any storm or sanitary sewers?	If no, indicate proposed correction: _____	____	____
☐ Yes ☐ No	Is there blockage in the overflow, an inadequately sized overflow, a malfunction of the level control system, or other issue that is causing the tank to overflow through the hatch or vent?	If yes, indicate what is causing the problem and how it should be repaired: _____	____	____
☐ Yes ☐ No	Is the overflow discharge point visible? If no, it is recommended that the discharge point be moved to a location that is visible.		Not Required	

Drain				
	Significant Deficiency	Required Correction	Proposed Completion Date	Actual Completion Date
☐ Yes ☐ No ☐ NA	Does the drain pipe have an air gap of 1 or more pipe diameters above the entrance to any storm or sanitary sewers?	If no, indicate proposed correction: _____	____	____
☐ Yes ☐ No	Does the discharge have a #24 mesh corrosion resistant screen OR a ducktill valve OR a properly sealed flapper valve with a screen inside? If no, EPA recommends that a #24 mesh screen be installed.		Not Required	
☐ Yes ☐ No	Does the drain terminate between 12 and 24 inches above the ground surface and discharges over an inlet structure or splash plate? If no, it is recommended that the discharge point be modified to provide for the appropriate air gap.		Not Required	

Cleaning and Other Items			
Significant Deficiency	Required Correction	Proposed Completion Date	Actual Completion Date
Describe any other items noted by the inspector that have the potential to cause contamination of the finished drinking water: _____	What repairs are suggested to prevent or eliminate the source of contamination? _____	____	____
Depth of sediment found in the tank before cleaning (inches): _____ How was the storage tank cleaned? _____ How was the storage tank disinfected after cleaning? _____ List any objects found inside the tank during cleaning that may have introduced contamination into the water system (examples: debris, animals, etc): _____			

☐ Yes ☐ No ☐ NA	If animal carcasses or other animal debris were found, was EPA notified immediately?
☐ Yes ☐ No ☐ NA	Was the entry point for the carcass or debris eliminated? Describe: _____
Please attach tank as-built drawings (if available) or a sketch of the tank's configuration and dimensions including the location, layout and dimensions of all major components (i.e. access hatch, vent, overflow, drain)	

17



Monitoring Plans

RTCR Sampling Plan on file? – Were due to Region 8 April 1st.

Ground Water Rule on file? – follow-up sampling for "unsafe" results

Disinfection Byproducts Sampling Plan on file?

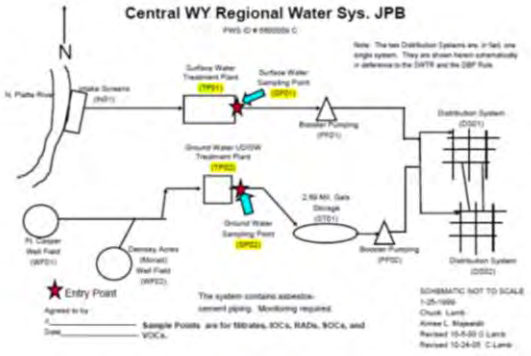
Lead & Copper Sample Siting Plan on file? – of current interest due to Lead issue in Flint Michigan

EPA Region 8 Sanitary Surveys and Significant Deficiencies

Schematic for WY5600009

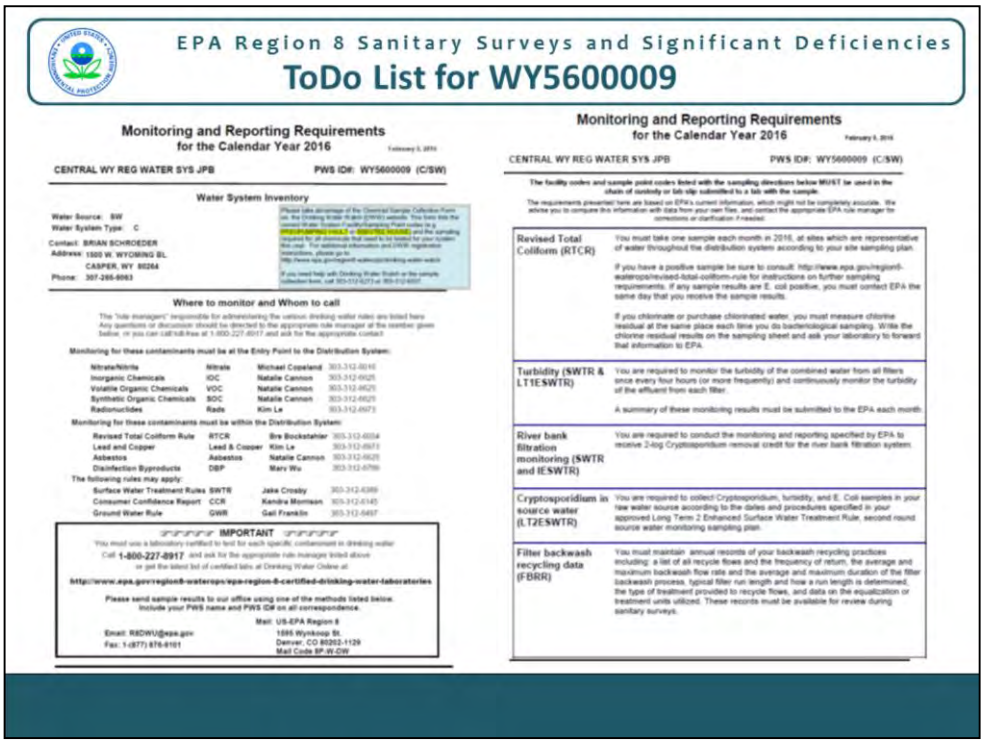
Sent to all WY PWSs in March:

- **Revised System Schematic**
- **Revised ToDo List**

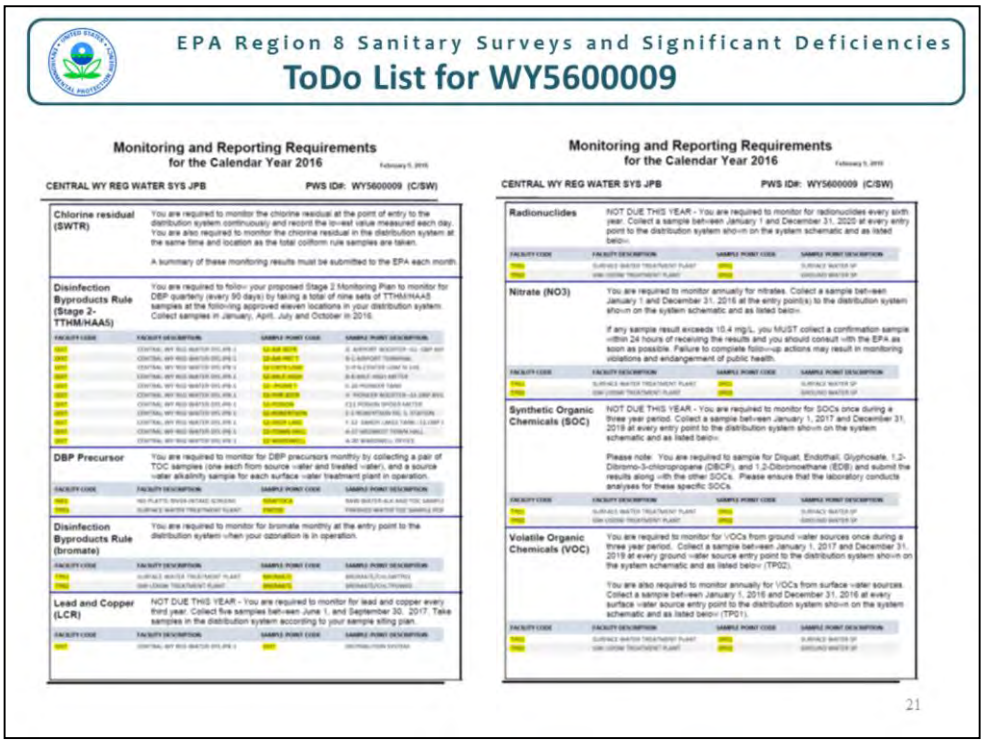


19

System Facility Code and Sample Point Code identified on System Schematic



ToDo List instructs samplers to identify the sample using the System Facility Code and Sample Point Code



Utilize your System Schematic, ToDo List and Monitoring Plans when collecting compliance samples

ToDo List for WY5600009

Monitoring and Reporting Requirements
for the Calendar Year 2016

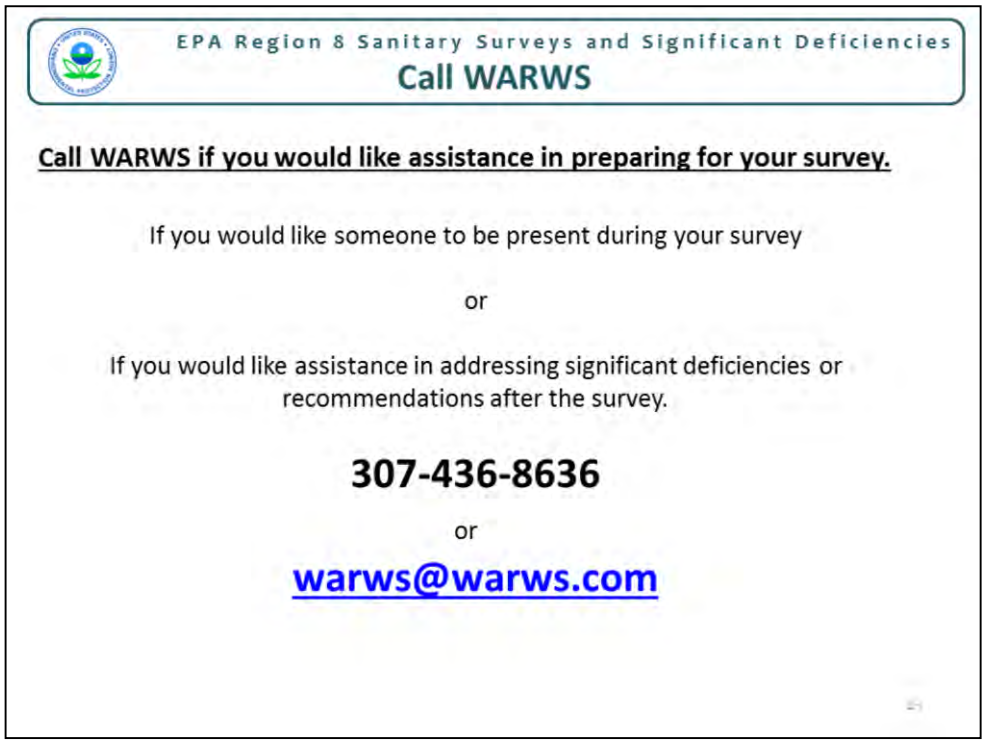
February 5, 2016

CENTRAL WY REG WATER SYS JPB **PWS ID#: WY5600009 (C/SW)**

Inorganic Chemicals (IOC)	You are required to monitor for IOCs from ground water sources once during a three year period. Collect a sample between January 1, 2017 and December 31, 2019 at every ground water source entry point to the distribution system shown on the system schematic and as listed below (TP02). You are also required to monitor annually for IOCs from surface water sources. Collect a sample between January 1, 2016 and December 31, 2016 at every surface water source entry point to the distribution system shown on the system schematic and as listed below (TP01).

FACILITY CODE	FACILITY DESCRIPTION	SAMPLE POINT CODE	SAMPLE POINT DESCRIPTION
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

Consumer Confidence Report (CCR)	You are required to complete and distribute a copy of your 2015 Consumer Confidence Report (CCR) to all of your customers by July 1, 2016. A copy of this drinking water quality report must also be sent to EPA Region 8 by July 1, 2016. In addition, a signed certification for the content and distribution of the CCR is due to EPA Region 8 by October 1, 2016. Consecutive systems should receive sample results and other pertinent information for incorporation into their report from their wholesaler by April 1, 2016. You can obtain your certification form and additional information about the requirements for this rule at http://www2.epa.gov/region8/waterops/reporting-forms-and-instructions-consumer-confidence-reports. As a wholesale system, you must provide sample data, violation information and the other content required in 40 CFR 141.153 to all buyer systems by April 1, 2016.



Call WARWS

Call WARWS if you would like assistance in preparing for your survey.

If you would like someone to be present during your survey

or

If you would like assistance in addressing significant deficiencies or recommendations after the survey.

I would like to hear about your experiences with sanitary surveys.

Please stop by the EPA booth and tell me how your past surveys have gone.

If you look at the Sanitary Survey process as kind of a test…

We aren't giving you the answer sheet..

But we are telling you all of the questions ahead of time!