QUESTIONS

Magnificent Park Water System
Profile Information

Situation A: Magnificent Park Water System
Repeat Monitoring

Magnificent Water System Characteristics

- TWS
- Uses one ground water well
- Operates year round
- Serves 156 persons

- Disinfects (<4log)
- Routine monitoring frequency is monthly
- System is required to collect 1 sample per month
- State does Not allow dual GWR-RTCR sample

Magnificent Water System received the following lab reports after collection of total coliform samples taken in compliance with its approved sample siting plan under the RTCR.

Everblue Laboratories
987 Spring Street Yellow City, XX 00101
Phone (555) 851-1234 Fax: (555) 851-1235

RECEIVED 13 Apr 2016
By.: ....

Analysis Report

Name: Magnificent Park Water System
6 Main Street
Apple Valley, XX 00102
PWSID: XXC1234567

Sample Type: Drinking Water
Sampler: AVWD
Method: Colilert-18®
Parameter: Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
4/11/16	0641392-1	Routine	Site G Dormitory Tape at building entrance	TC+/EC+	4/13/16

Everblue Laboratories
987 Spring Street Yellow City, XX 00101
Phone (555) 851-1234 Fax: (555) 851-1235

RECEIVED 15 Apr 2016
By.: ....

Analysis Report

Name: Magnificent Park Water System
6 Main Street
Apple Valley, XX 00102
PWSID: XXC1234567

Sample Type: Drinking Water
Sampler: AVWD
Method: Colilert-18®
Parameter: Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
4/13/16	0641393-1	Repeat	Site G	TC-/EC-	4/15/16
4/13/16	0641394-1	Repeat	Site G Upstream	TC-/EC-	4/15/16
4/13/16	0641395-1	Repeat	Site G Downstream	TC-/EC-	4/15/16

Situation A: Repeat Monitoring

1. The PWS must notify the State about the EC+ result by the end of the day on 4/13/2016?

   Yes   No   (circle your answer)

2. The PWS must take _____[number] repeat samples per TC+ routine sample, and _____[number] GWR source water sample by _____[month/day/year].

3. Where did the PWS need to take the repeat samples? (Check all that apply)

   ☐ Randomly through the distribution system.

   ☐ At the original site that had the TC+.

   ☐ At a sample location 5 connections upstream from the original site as described in the sampling siting plan.

   ☐ At a sample location 5 connections downstream from the original site as described in the sampling siting plan.

4. The PWS must take _____[number] routine sample(s) in _____[month].

5. Was there an *E. coli* MCL violation ? _____Yes _____No

6. Was an assessment triggered? _____Yes _____No
   a. What level of assessment was triggered? _____Level 1 _____Level 2

Situation B: Magnificent Park Water System

Magnificent Park takes total coliform samples in May 2016 and received the following lab reports:

Everblue Laboratories
987 Spring Street
Phone (555) 851-1234

Yellow City, XX 00101
Fax: (555) 851-1235

RECEIVED
11 May 2016
By:

Analysis Report

Name: Magnificent Park Water System
6 Main Street
Apple Valley, XX 00102
PWSID: XXC1234567

Sample Type: Drinking Water
Sampler: AVWD
Method: Colilert-18®
Parameter: Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
05/09/16	0641396-1	Routine	Site G	TC**+**/EC-	5/11/16

Everblue Laboratories
987 Spring Street
Phone (555) 851-1234

Yellow City, XX 00101
Fax: (555) 851-1235

RECEIVED
13 May 2016
By:

Analysis Report

Name: Magnificent Park Water System
6 Main Street
Apple Valley, XX 00102
PWSID: XXC1234567

Sample Type: Drinking Water
Sampler: AVWD
Method: Colilert-18®
Parameter: Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
05/11/16	0641399-1	Repeat	Site G	TC-/EC-	5/13/16
05/11/16	0641400-1	Repeat	Site G Upstream	TC-/EC-	5/13/16
05/11/16	0641401-1	Repeat	Site G Downstream	TC**+**/EC-	5/13/16

Situation B: Routine and Repeat Monitoring

1. Based on the routine sample results, the system operator must take _____ [total number] repeat samples by _____ [month/day/year].

_____

1a. Is the PWS required to collect triggered GWR samples?   Yes   No   (circle your answer)

_____

2. Based on the RTCR results, what level of assessment was triggered?

   Level 1   Level 2

_____

3. The PWS must complete the assessment and submit a completed assessment form to the state by _____[month/day/year].

_____

4. Who can do the assessment?

_____

5. How many routine samples are required in June?_____[number]

_____

Situation C: Magnificent Park Water System
Routine and Repeat Monitoring, Assessments, Violations

Situation C Description

So far we know that on:

- 4/11/16, the PWS took its routine sample and it was TC+/EC+.
- 4/13/16, the system took its 3 repeat samples and all of the samples were TC-.
- 4/13/16, the system took a raw water GWR sample and the sample was TC-.
- 5/9/16, Magnificent Park took its routine sample and it was TC+/EC-.
- 5/11/16, the system took its 3 repeat samples: two samples were TC- and one was TC+/EC-.
- 6/11/16, Level 1 assessment was completed but the corrective actions are still due. The PWS received approval to complete one of the corrective actions by November 9, 2016.

Magnificent Park did routine sampling on 6/16/2016 and on 07/19/2016 and the samples were TC-. Magnificent Park takes total coliform samples in August 2016 and received the following lab reports:

- BONUS: Magnificent Park's GWR triggered source water sample on 8/11/16 was TC+\EC+.

Everblue Laboratories
987 Spring Street   Yellow City, XX 00101
Phone (555) 851-1234   Fax: (555) 851-1235

RECEIVED
10 August 2016
By: ....

Analysis Report

Name: Magnificent Park Water System   **Sample Type:** Drinking Water
6 Main Street   **Sampler:** AVWD
Apple Valley, XX 00102   **Method:** Colilert-18®
PWSID: XXC1234567   **Parameter:** Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
08/08/16	0641600-1	Routine	Site G	TC+/EC-	8/10/2016

Everblue Laboratories

987 Spring Street   Yellow City, XX 00101
Phone (555) 851-1234   Fax: (555) 851-1235

RECEIVED
12 August 2016
By: ....

Analysis Report

Name: Magnificent Park Water System
6 Main Street
Apple Valley, XX 00102
PWSID: XXC1234567

Sample Type: Drinking Water
Sampler: AVWD
Method: Colilert-18®
Parameter: Enumeration of *E. coli* and coliform bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
08/11/16	0641610-1	Repeat	Site G	TC-/EC-	8/12/16
8/11/16	0641611-1	Repeat	Site G Upstream	TC-/EC-	8/12/16

Situation C: Reoutine and Repeat Monitoring, Assessments, Violations

1. Based on the routine TC+/EC- result received on 8/08/16, the PWS must take

   _____[number] repeat samples by _____[month/day/year].

   _____

2. Based on the RTRC sample results received for August 2016, did the PWS incur an *E. coli* MCL violations?

   Yes   No   (circle your answer)

   _____

3. Did the PWS trigger a Level 1 or Level 2 assessment?

   Level 1   Level 2   (circle your answer)

   _____

4. Who can do the assessment?

   _____

5. When is the assessment and corrective actions required to be completed?

   _____[month/day/year]

   _____

6. Because of the 8/11/2016 EC+ triggered GWR source water sample, what does the PWS need to do next to comply with the GWR?

   _____