

# ANSWERS

## Magnificent Park Water System Profile Information




## Situation A: Magnificent Park Water System Repeat Monitoring

### Magnificent Water System Characteristics

- TWS
- Disinfects (<4log)
- Uses one ground water well
- Routine monitoring frequency is monthly
- Operates year round
- System is required to collect 1 sample per month
- Serves 156 persons
- 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.



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Analysis Report

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



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Analysis Report

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

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)

Email LDHH at **safe.water@la.gov** and include PWS ID and PWS Name and date of EC+ result.

2. The PWS must take 3 [number] repeat samples per TC+ routine sample, and 1 [number] GWR source water sample by 4/14/16 [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 1 [number] routine sample(s) in May [month].

5. Was there an *E. coli* MCL violation? \_\_\_\_\_ Yes  No

Although the routine sample was EC+, all repeat samples were collected and were TC- therefore the PWS does NOT have an *E. coli* MCL violation.


6. Was an assessment triggered? \_\_\_\_\_ Yes  No

a. What level of assessment was triggered? \_\_\_\_\_ Level 1 \_\_\_\_\_ Level 2

There is no assessment required because all repeat samples were collected and all repeat samples were TC-

## Situation B: Magnificent Park Water System

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



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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



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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 3 [total number] repeat samples by 5/12/16 [month/day/year].
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- 1a. Is the PWS required to collect triggered GWR samples?  Yes  No (circle your answer)
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2. Based on the RTCR results, what level of assessment was triggered?

Level 1

Level 2

**Level 1 because it had more than one TC+ sample results in May 2016. It did not have an *E. coli* MCL violation (level 2) because all repeat samples were collected and all repeat samples were EC-.**

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3. The PWS must complete the assessment and submit a completed assessment form to the state by 6/13/16 [month/day/year].
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4. Who can do the assessment?

**A Level 1 assessment can be completed by an operator or a group of operators who hold, in total, certifications in production, treatment, and distribution at the appropriate level for the population served. Magnificent Park's population of fewer than 1,000 persons, would require a Level 1 license with Production, Treatment, and Distribution certifications.**

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5. How many routine samples are required in June? 1 [number]
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## 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+.



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**Analysis Report**

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



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#### Analysis Report

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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

1. Based on the routine TC+/EC- result received on 8/08/16, the PWS must take 3 [number] repeat samples by 8/11/2016 [month/day/year].

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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)

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

Level 1  Level 2  (circle your answer)

**A Level 2 Assessment because this is the second Level 1 trigger that has occurred within 12 months. The PWS had its first Level 1 trigger in May 2016 when it had at least two TC+ sample results. The PWS had a second Level 1 trigger, which now becomes a Level 2 assessment, when it failed to take 3 repeat samples in August 2016.**

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4. Who can do the assessment?

**Only LDHH State staff can do the Level 2 assessment.**

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

9/11/2016 [month/day/year]

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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?

**Take well offline or issue a Boil water advisory if the well stays in use. And take 5 additional GWR samples at the well (raw water sample tap before treatment).**

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