

**Scenario Worksheet**

**Practice and Scenario Description:**

<b>Information Type</b>	<b>Data</b>
Region	New England
State	Connecticut
Discipline Group	Engineering General
Practice Code/Name	355 - Well Water Testing
Scenario ID	1
Scenario Name	Basic Water Test
Scenario Description	Typical scenario includes the professional testing for nitrates, nitrites, and coliform to confirm well water meets basic water quality standards for consumption by livestock or use in irrigation. Water samples are sent to an EPA or state certified laboratory for testing. This scenario is recommended when water quality is suspected to be acceptable.
Before Practice Situation	There are no known contaminants of the well, however, neighboring wells have known issues with nitrates, or coliform, and confirmation of acceptable water quality is desired. Manure is spread near to the well, following a nutrient management plan; well contamination is unlikely but possible.
After Practice Situation	Water quality results are known.
Scenario Feature Measure	No.
Scenario Unit	Each
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$41.98	\$41.98
Equipment/Installation	\$0.00	\$0.00
Labor	\$12.86	\$12.86
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$54.84	\$54.84

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	310	Test, Standard Water Test, Irrigation Suitability	Irrigation water suitability lab analysis. Includes pH, alkalinity, carbonates/bicarbonates, EC, dissolved solids, B, Cl, Ca, Mg, Na, SAR, and hardness.	Each	\$41.98	1	\$41.98
Labor	231	General Labor	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$25.71	0.5	\$12.86

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Region	New England
State	Connecticut
Discipline Group	Engineering General
Practice Code/Name	355 - Well Water Testing
Scenario ID	3
Scenario Name	Full Spectrum Test
Scenario Description	Typical scenario includes the professional comprehensive testing for all less common substances, to include: pesticides, heavy metals, VOC's or other less common substances, in addition to the basic water test items. Tests are intended to confirm well water meets water quality standards for consumption by livestock or use in irrigation. Water samples are sent to an EPA or state certified laboratory for testing. This scenario is recommended when water quality is known to be degraded due to a specialized substance but thorough analysis is warranted.
Before Practice Situation	There are no known contaminants of the well, however, neighboring wells have known issues with water quality, and confirmation of acceptable water quality is desired. Manure, pesticides, sewage sludge, or other potential contaminants have been spread near to the well, in an unmanaged manner; well contamination is likely.
After Practice Situation	Water quality results are known.
Scenario Feature Measure	No.
Scenario Unit	Each
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$422.88	\$422.88
Equipment/Installation	\$0.00	\$0.00
Labor	\$12.86	\$12.86
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$435.74	\$435.74

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	310	Test, Standard Water Test, Irrigation Suitability	Irrigation water suitability lab analysis. Includes pH, alkalinity, carbonates/bicarbonates, EC, dissolved solids, B, Cl, Ca, Mg, Na, SAR, and hardness.	Each	\$41.98	1	\$41.98
Labor	231	General Labor	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$25.71	0.5	\$12.86
Materials	2002	Test, comprehensive specialized water test, well water	Comprehensive testing for a broad spectrum of pesticides, inorganic chemicals or volatile organics not included in a basic well suitability test.	Each	\$380.90	1	\$380.90

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<b>Information Type</b>	<b>Data</b>
Region	New England
State	Connecticut
Discipline Group	Engineering General
Practice Code/Name	355 - Well Water Testing
Scenario ID	2
Scenario Name	Specialty Water Test
<b>Scenario Description</b>	Typical scenario includes the professional testing for pesticides, heavy metals, VOC's or other less common substances, in addition to the basic water test items. Tests are intended to confirm well water meets water quality standards for consumption by livestock or use in irrigation. Water samples are sent to an EPA or state certified laboratory for testing. This scenario is recommended when water quality is suspected to be degraded due to a specialized substance.
<b>Before Practice Situation</b>	There are no known contaminants of the well, however, neighboring wells have known issues with water quality, and confirmation of acceptable water quality is desired. Manure, pesticides, or other potential contaminants have been spread near to the well, in an unmanaged manner; well contamination is possible.
<b>After Practice Situation</b>	Water quality results are known.
Scenario Feature Measure	No.
Scenario Unit	Each
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$181.88	\$181.88
Equipment/Installation	\$0.00	\$0.00
Labor	\$12.86	\$12.86
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
<b>Total</b>	<b>\$194.74</b>	<b>\$194.74</b>

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Labor	231	General Labor	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$25.71	0.5	\$12.86
Materials	310	Test, Standard Water Test, Irrigation Suitability	Irrigation water suitability lab analysis. Includes pH, alkalinity, carbonates/bicarbonates, EC, dissolved solids, B, Cl, Ca, Mg, Na, SAR, and hardness.	Each	\$41.98	1	\$41.98
Materials	2003	Test, singular specialized water test, well water	Testing for specific pesticide, inorganic chemical or volatile organic not included in a basic well suitability test.	Each	\$139.90	1	\$139.90