

FOIA MARKER

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[AmeriCorps - Water Quality - "Simply The Facts On..."] [loose]

Stack:	Row:	Section:	Shelf:	Position:
S	66	1	4	3

A black and white illustration of a cow standing in a river, with hills in the background. The cow is positioned in the middle of the river, facing left. The river flows from the background towards the foreground. The hills are in the background, and the sky is clear. The illustration is simple and stylized, with bold lines and no shading.

[illegible]

DANGER

AMMONIA SOURCES Runoff from enclosed confined facilities (i.e., loafing barn). Runoff from silage storage areas. Runoff from open confined areas (i.e., corrals, feed-lots). Runoff from manure storage areas. Facilities waste water. Runoff from over-fertilization. Runoff from overstocked pastures. Animals in the creek.



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For Water Quality information contact:
Natural Resources Conservation Service
Regional Water Quality Control Board
California Department of Fish & Game
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[illegible]

DANGER

SALINITY SOURCES Poor subsurface drainage. Irrigated crops. Runoff from enclosed confined facilities (i.e., loafing barn). Runoff from silage storage areas. Runoff from open confined areas (i.e., corals, feedlots). Runoff from manure storage areas. Facilities wastewater. Runoff from over-fertilization. Runoff from overstocked pastures. Animals in the creek. Tidal influence.



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A black and white illustration of a cow standing in a field. A winding path leads from the foreground towards the cow. In the background, there are rolling hills. The style is simple and graphic, with bold lines and cross-hatching for shading.

[illegible]

- Management practices are acceptable



- Nutrients entering stream
- Evaluate waste management



- Immediate action necessary!

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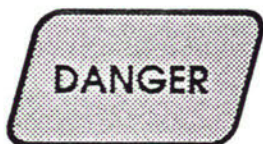
A black and white illustration of a cow standing in a field with rolling hills in the background. The cow is positioned in the lower center, facing left. The field is depicted with horizontal lines, and the hills in the background are rendered with wavy, shaded lines. The entire illustration is enclosed within a rectangular border.

[illegible]

- Good DO levels for aquatic life



- DO levels moderate
- Evaluate waste management system
- Organic material may be entering surface water



- Inadequate DO levels for most aquatic life
- Identify sources of organic material runoff
- Immediate action necessary!



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A black and white line drawing of a cow standing in a field. A winding path leads from the foreground towards the background, where there are rolling hills. The cow is positioned in the middle ground, facing left. The path curves around the cow and continues into the distance. The hills in the background are rendered with simple lines and shading. The overall style is that of a classic children's book illustration.

[illegible]

- Neutral
- Ideal water condition



- Readings closest to 7.0 are ideal
- Evaluate waste management



- Acid and alkaline conditions
- Identify sources of pH change
- Immediate action necessary!

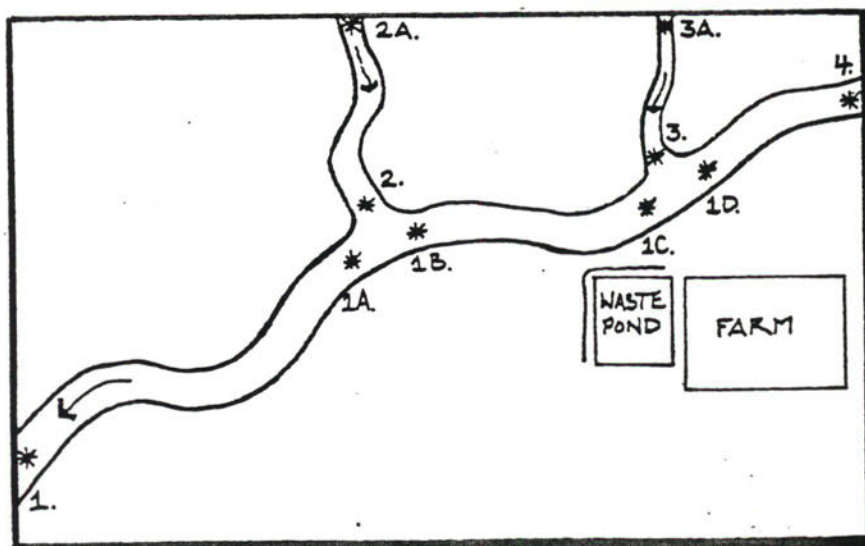
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SIMPLY THE FACTS on Monitoring Sites



To select water monitoring sites for a farm or ranch:

1. Obtain current aerial photography or a map of the property. Label the map in a numeric system to denote the best locations for possible monitoring sites (example below). Start by choosing sites on property lines (i.e., sites 1, 2A, 3A, 4). This will determine the water quality entering and leaving your property.
2. Pick sites located at the downstream end of tributaries to determine the water quality entering the main channel of a creek (i.e., sites 2 and 3). This way, you can identify possible sources of nutrient loading simply by backtracking upstream from those sites (to sites 2A and 3A). While backtracking, if you receive a clean/non-polluted sample, you can pinpoint the pollution source.
3. Once you have identified a source of pollution, keep a record of your results and note problem sites. Record any observations concerning water quality and riparian habitat. These observations include date, time, weather conditions, water color, odor (if any), vegetation, the presence of wildlife, and general conditions. Also record your water sampling data such as temperature, pH, ammonia, flow, turbidity, conductivity, DO, etc.
4. The best time to sample is in the morning when the water is coolest. It is also best to sample in the rain or just after a rain to locate problem areas. Consistency in sampling is important to evaluate results over a period of time and to make corrections as needed.



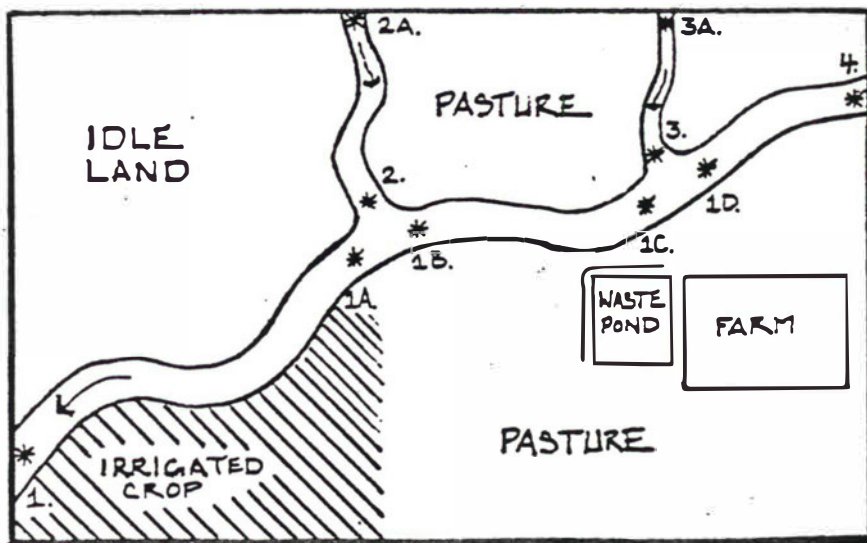
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WATER MONITORING EXAMPLES

- ▼ A high nutrient reading was found at monitoring stations #1 and #1A. All other stations were sampled with low readings.
 - Conclusion: Nutrient source most likely is runoff from irrigated crop.
- ▼ A High turbidity (suspended sediment) level is recorded entering the property at station #4. At station #1 leaving the property a low turbidity level is recorded.
 - Conclusion: Sediment is being deposited between Station #1 and #4 in the stream channel.
- ▼ Station #2A and #2 have high nutrient levels recorded. A moderate nutrient reading was recorded at station #1A. Station #1B has a low nutrient level.
 - Conclusion: Tributary #2 has a high nutrient level entering the creek. Reading at station #1A has been diluted but a problem has still been diagnosed.



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