



# ENVIRONMENTAL AGRICULTURAL

## Analytical Chemists

### **Guidelines for Irrigation and Potable Well Sampling for the Central Coast Ag Waiver**

#### **Analyses**

The following analyses are required for each ground water sample:

pH, Specific Conductance, Total Dissolved Solids, Total Alkalinity as CaCO<sub>3</sub>, Calcium, Magnesium, Sodium, Potassium, Sulfate, Chloride and Nitrate +Nitrite as N

#### **Sampling containers, supplies and documentation**

##### **Bottles**

The following bottles are required for each ground water sample and will be provided by the laboratory:

1. Pint – no preservative (wet chemistry)
2. 8 ounce with sulfuric acid (nitrate + nitrite as N)
3. 250 ml with nitric acid (metals)

##### **Supplies/documentation**

Chains of custody, labels, Ziploc bags, blue ice/ice and ice chest

#### **Sampling procedures**

**Sampling must be conducted by a third party which is defined as “any individual, other than the owner, operator or person who filed, signed or is named on the eNOI.”**

1. Before sampling the well, be sure to run the pump long enough (no less than 10 minutes) to ensure that the sample represents the ground water source.
2. Sample should be taken from a point closest to the well.
3. Sample should **not** be taken at or after any fertigation ports, sample must be from raw water source.
4. Make sure sample point is clean and free from debris. Flush out sample point before sampling.
5. Wear latex gloves when sampling to ensure that you don't contaminate the sample and keep yourself from exposure to preservatives in the sample containers.
6. When removing the cap from each container, be cautious that no contact is made with the bottle opening and/ or the inside of the bottle.
7. When filling up the sample containers please ensure flow of water is slow and consistent so that overflowing does not take place.
8. Replace lid immediately after filling. Follow the same procedure for each sample container.
9. Once they are filled, dry off sample bottles, complete and attach labels to sample container.
10. Immediately place on ice in a cooler.
11. To ensure that the bottles are not at any time submersed in water, place bottles in a Ziploc bag. This ensures against cross-contamination with the ice/melted water.
12. Complete chain/s of custody including analyses to be run, date and time of sampling and GPS coordinates of the well location. FGL provides it's customers with preprinted chains of custody with all the relevant client and analyses information. For FGL chains of custody, only GPS coordinates need to be entered together with date and time of sampling.
13. Sample containers should be kept cool (preferably in a refrigerator) while being stored for shipment
14. Ice should be replaced prior to shipment
15. Samples should be transported to the laboratory as quickly as possible, preferably overnight.

