

SOP S-

**STANDARD OPERATING PROCEDURE FOR TAP WATER / RESIDENTIAL
WELL GROUNDWATER SAMPLING AT THE
WEST KINGSTON TOWN DUMP/ URI DISPOSAL AREA SITE**

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Prepared by: _____ Date: _____

Reviewed by: _____ Date: _____

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Residential Well / Tap Water Sampling Procedures

Select residential wells will be sampled, with a procedure dependent on the current status of the well and whether or not the resident is connected to public water. Requirements for sample containers and preservatives for residential well and tap water samples are the same as for groundwater samples, and are listed in Tables 8-1 and 8-3.

Equipment Needed:

- Hand tools, such as a wrench to remove filter systems or aerators
- Appropriate sample containers (some will be pre-preserved) and labels.
- Bound field logbook.
- Hard plastic cooler with ice.

Tap Water Sampling Steps.

1. If the resident is not connected to public water the sample can be obtained from an indoor faucet or outside spigot.
2. If the resident has a water filter or conditioner, the sample will be collected prior to entry into this apparatus; also, any aerators on spigots or faucets will be removed.
3. Turn on the faucet of spigot at approximately one-half to three quarters flow (run cold water only if there is an option for this selection).
4. Run the tap for approximately 10 minutes to allow for water to be purged from the pressure tank.
5. After a period of ten minutes, reduce the flow to a trickle and collect samples following the procedures outlined in the SOP for collecting groundwater samples for specific analyses.
6. Record observations and sample times in the field log book or on sampling sheets.

Residential Well Sampling Steps.

1. Assess the condition of the residential well to determine if the pump is still intact and useable.
2. If the pump is in usable condition, turn on the pump and run it for a period of 10 minutes.
3. After a period of ten minutes, reduce the flow and collect the samples following the procedures outlined in the SOP for procedures for collecting groundwater samples for specific analyses.
4. If the pump is no longer in useable condition, or has been removed from the well, the well will be sampled by placing tubing and necessary pumps in the well. If restrictions prevent placing pumps down the well, collection of a groundwater sample may be attempted by bailing.
5. Record observations and sample times in the field log book or on sampling sheets.

QA/QC

When sampling water from the tap, the sampler should inquire as to the type of piping used in the residence and record all available information in the field log book or on sampling sheets. QA/QC procedures are outlined in the Sampling procedures discussed above. Duplicates, blanks, and spikes have been incorporated into the QAPP to assess potential for sampling, shipping, and laboratory impacts on data quality.

References

None.