

1	Upon arrival at Field Team Center (FTC), receive a status briefing from Field Sampling Team Leader (FSTL) and review this SOP to familiarize yourself with what might be required. Clarify any questions with FSTL or FTC Coordinator before departing on sampling assignments. Verify communications, radio channels, cell phone numbers, FTC number, etc.
2	Receive sampling assignment(s) from FSTL.
3	Inventory sampling kit using Attachment 1. Obtain any missing items from Field Team Center.

IF	THEN
Assignments are outside of the	Proceed with Item #4
Assignments include locations inside Restricted Zone	If needed, request assistance from FSTL or FTC staff in plotting routes to assigned locations. Request briefing on dosimetry and use of any protective gear issued. Request any information on stay time restrictions. Request monitoring station location. Review sampling techniques, procedures, requirements, and locations with assigned escort. Follow the escorts instructions regarding cross-contamination and exposure control measures.

IF	THEN
FSTL advises that samples are to be split (processed at different labs to verify accuracy).	Make two complete collections at assigned sample site per normal procedures. Indicate this information on both data sample sheets and containers.

Prior to Traveling to the Sample Site

4	Label all containers with as much information as possible.
5	Fill out the Sample Laboratory Data Sheet with as much information as possible and have the sampler sign the chain of custody section.
6	Ensure the vehicle has adequate fuel, paper liner on floorboards and cargo area, trash box with liner or trash bag with duct tape, sample transport container, receptacle for reusable equipment (for decon), maps, and communication equipment.
7	Turn on GPS unit and Survey Meter
8	Place the following items into backpack or equipment caddy: sample jugs, formaldehyde, sanitizer, ladle, graduated cylinder, absorbent pad, funnel, permanent marker, ink pen, GPS Unit, clipboard with Sample and Laboratory Data Sheet, sampling instructions, paper towels, small trash bag, and knife. Split samples require two additional jugs and Sample Data Sheet
9	Ready cooler with ice to receive milk sample when completed. Leave cooler in vehicle.
10	Don PPE (Tyvek, Boot covers, and Gloves).

Upon Arrival to Sample Site

10	Radio Field Team Center of arrival and explain purpose of sampling to the property owner (if appropriate) while verifying the exact address for the Sample and Laboratory Data Sheet. Conduct an area survey taking note of background readings in the margin of the Sample and Laboratory
11	Don respiratory equipment, if advised by Field Team Center.
12	Utilized lined trash box or prepare a garbage bag to receive waste by taping it in place on an easily accessible area in the work vehicle.
13	Go inside milk house and position plastic bag on floor/table near milk tank to be sampled. If it is necessary to collect sample from animal directly, use sampling bucket for milking (ideally 3.8 liters from four cows). Fill the sample container
14	Use the survey meter to take a radiation reading at a height of one (1) meter above (or away from) the sample area. Record the reading on Sample Data Sheet as Field 1 Meter Reading.
15	Use the survey meter to take a radiation reading at a maximum of 3-5 cm (2") above the sample area. Do not make contact with the sample point. Record the reading on Sample Data Sheet as Field Contact Reading.
16	Turn on milk agitator for five minutes before sampling. Prepare sample jug, funnel, and ladle for sample utilizing sanitizer instructions. Drain remaining sanitizer. Measure 12mL formaldehyde into empty sample container. Take ladles of milk and pour into sample jug; making sure to sample from different depths. Close jug and shake.
17	Use the survey meter to take radiation reading at a maximum of 3-5cm from sample container. Do not make contact with sample container. Record reading on Sample Data Sheet as Sample Contact Reading.
18	Complete label info on sample container. Place sample container in resealable bag and seal.
19	Complete the sample submission sheet recording time, GPS latitude, and longitude.
20	Place the sample sheet and bagged samples into second resealable bag and seal. Ensure all information on sample sheet is visible.
21	Using a wipe, clean any spills and remove any liquids from ladle and funnel. This is only a gross decon. Reusable tools will be decontaminated at the decon station.
22	Place used paper towels and previously removed glove(s) into small trash bag

Returning to Vehicle

23	Secure samples in transport container (cooler).
24	Place reusable equipment, if any, in decon container for decontamination.
25	Place continuous use equipment (survey meter, backpack, etc.) in equipment container.
26	Place disposable equipment in waste container.
27	Remove one layer of gloves and place in waste container.
28	Contact Field Team Center to update status of Field Sampling Team and proceed to next sample point as previously instructed.

Sampling Equipment Inventory Sheet

This list covers all items needed for air samples.

- Equipment Caddy
- Backpack
- Protective Gloves
- Boot Covers
- Tyvek Coveralls
- (2) 9"x12" Resealable Bags
- Masking Tape
- Plastic Gallon Jug
- Bottle Brush
- Funnel
- Ladle
- Formaldehyde
- Absorbent Pad
- Sanitizer
- Graduated Cylinder
- (2) Permanent Markers
- Paper Towels
- Clipboard
- Sampling Instructions
- Sample and Laboratory Data Sheet
- Ink Pen
- Survey Meter
- GPS Unit (wrap in plastic)
- Hand Held Radio (wrap in plastic)
- Utility belt (Optional)
- Small Trash Bag
- Knife

Note: Split samples will require additional bags, container jug, and Sample and Laboratory Data Sheet.

(Items such as coolers and ice for perishable samples and protective clothing/dosimetry/respirators for sampling within the Restricted Zone would be provided by the Field Team Center.)

Instructions for Completing Sample and Laboratory Data Sheet

Plant - Beaver Valley Power Station

Sector - Leave Blank if Unknown

Distance - Leave Blank if Unknown

Date Collected - MM/DD/YYYY (ex. 06/31/2010)

Mil Time - Use 24 hour clock

Code - See the key on sheet (ex. "MI" for milk)

Agency Log No. - Given by Field Team Center for tracking

Street - Leave Blank if Unknown

GPS Latitude - Enter Direction and Degrees-Minutes Decimal

GPS Longitude - Enter Direction and Degrees-Minutes Decimal

Collected by - Enter Your Name and agency

Sampling Info - Fill out info for Vegetation sample under other (Comment any irregularities)

Field 1 Meter Reading - Reading obtained in Step 14 before sample

Field Contact Reading - Reading obtained in Step 15 before sample

Sample Contact Reading - Reading obtained in Step 17 after sample

Duplicate/Split # - Enter split or duplicate number if applicable

Chain of Custody - Print name, sign, date and time