

**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE SURFACE WATER**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/Composite Frequency</b>
<b>WFBCTCB*</b> Buttermilk Creek, upstream of Cattaraugus Creek confluence at Thomas Corners Road	Restricted surface waters receiving plant effluents  <u>Reported in:</u> • Annual Site Environmental Report • Monthly Environmental Monitoring Trend Report	Timed continuous composite liquid	→ Biweekly	→ 26	→ pH
			Biweekly samples composited to 12	→ Monthly composite for gross alpha/beta, H-3	
<b>WFFELBR*</b> Cattaraugus Creek at Felton Bridge	Unrestricted surface waters receiving plant effluents  <u>Reported in:</u> • Monthly Environmental Monitoring Trend Report • Annual Site Environmental Report	Timed continuous composite liquid	→ Weekly	→ 52	→ Gross alpha/beta, H-3, pH
			Weekly samples composited to 12	→ Flow-weighted monthly composite for gamma isotopic and Sr-90	
<b>WFBCBKG*</b> Buttermilk Creek near Fox Valley	Unrestricted surface water background  <u>Reported in:</u> • Monthly Environmental Monitoring Trend Report • Annual Site Environmental Report	Timed continuous composite liquid	→ Biweekly	→ 26	→ pH
			Biweekly samples composited to 12	→ Monthly composite for gross alpha/beta, H-3	
			Biweekly samples composited to 4	→ Quarterly composite for gamma isotopic, Sr-90, C-14, I-129, Pu/U isotopic, Total U, Am-241	
<b>WFBIGBR</b> Cattaraugus Creek at Bigelow Bridge	Unrestricted surface water background	Grab liquid	→ Semiannually	→ 2	→ NPOC, TOX, Ca, Mg, Na, K, Ba, Mn, Fe, Cl, SO <sub>4</sub> , NO <sub>3</sub> -NO <sub>2</sub> -N, F, HCO <sub>3</sub> , CO <sub>3</sub>
			→ Monthly	→ 12	→ Gross alpha/beta, H-3, Sr-90, and gamma isotopic

\*Monthly composite at this sample location also sent to NYSDOH.

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Sampling Rationale

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**WFBCTCB** DOE/EH-0173T, 5.10.1.1.

Buttermilk Creek is the surface water receiving all WVDP effluents. **WFBCTCB** monitors the potential influence of WVDP drainage into Buttermilk Creek upstream of confluence with Cattaraugus Creek.

**WFFELBR** DOE/EH-0173T, 5.10.1.1.

As Buttermilk Creek is the surface water that receives all WVDP effluents and empties into Cattaraugus Creek, **WFFELBR** monitors the potential influence of WVDP drainage into Cattaraugus Creek directly downstream of confluence with Buttermilk Creek.

**WFBCBKG** DOE/EH-0173T, 5.10.1.1.

Monitors background conditions of Buttermilk Creek upstream of the WVDP. Allows for comparison to downstream conditions.

**WFBIGBR** DOE/EH-0173T, 5.10.1.1.

Monitors background conditions of Cattaraugus Creek at Bigelow Bridge, upstream of the WVDP. Allows for comparison to downstream conditions.

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**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE DRINKING WATER**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/ Composite Frequency</b>
<b>WFWEL Series</b> Wells near WVDP outside WNYNSC perimeter  <b>WFWEL01</b> 3.0 km WNW  <b>WFWEL02</b> 1.5 km NW  <b>WFWEL03</b> 4.0 km NW  <b>WFWEL04</b> 3.0 km NW  <b>WFWEL05</b> 2.5 km SW  <b>WFWEL06</b> (background) 29 km S  <b>WFWEL07</b> 4.0 km NNE  <b>WFWEL08</b> 2.5 km ENE  <b>WFWEL09</b> 3.0 km SE  <b>WFWEL10</b> 7.0 km N	Drinking water supply; → groundwater near the facility  <u>Reported in:</u> • Annual Site Environmental Report	→ Grab liquid	→ Annual	→ 1 each location	→ Gross alpha/beta, H-3, gamma isotopic, pH, conductivity

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OFF-SITE DRINKING WATER

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Sampling Rationale

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Off-site Drinking Water <b>WFWEL</b> Series	DOE 5400.1, IV.9; DOE/EH-0173T, 5.10.1.2.  Eight of the ten listed off-site private residential drinking water wells represent the nearest unrestricted uses of groundwater close to the WVDP. The ninth sample ( <b>WFWEL10</b> ) is from a public water supply from deep wells. The tenth drinking water well, <b>WFWEL06</b> , is located 29 kilometers south of the Project and is considered a background drinking water source.
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**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE AIR**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/Composite Frequency</b>
<b>AFFXVRD</b> 3.0 km SSE at Fox Valley	Particulate air samples around WNYNSC perimeter  <u>Reported in:</u> • Annual Site Environmental Report • Monthly Environmental Monitoring Trend Report (AFBOEHN, AFRT240, AFRSPRD, and AFGRVAL only)	Continuous air particulate filter	→ Weekly	→ 52 each location  Weekly filters composited to 4 each location	→ Gross alpha/beta  → Quarterly composite for Sr-90, gamma isotopic  Total U, U/Pu isotopic, Am-241 for AFRSPRD and AFGRVAL only
<b>AFTCORD</b> 3.7 km NNW at Thomas Corners Road					
<b>AFSPRVL</b> 7 km N at Springville					
<b>AFWEVAL</b> 6 km SSE at West Valley					
<b>AFDNKRR</b> 50 km W at Dunkirk (background)					
<b>AFBOEHN</b> 2.3 km SW on Dutch Hill Road					
<b>AFRT240</b> 2.0 km NE on Route 240					
<b>AFRSPRD</b> 1.5 km NW on Rock Springs Road	Continuous desiccant column for water vapor collection	→ Weekly	→ 52 each location (AFRSPRD and AFGRVAL only)	→ H-3	
<b>AFGRVAL</b> 29 km S at Great Valley	Continuous charcoal cartridge	→ Monthly	→ 12 composited to 4 each location (AFRSPRD and AFGRVAL only)	→ Quarterly composite for I-129	
<b>AFBLKST</b> Bulk storage warehouse 2.2 km ESE at Buttermilk Road					

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**OFF-SITE AIR**

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**Sampling Rationale**

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- AFFXVRD** DOE/EH-0173T, 5.7.4.  
**AFTCORD**  
**AFRT240** Air samplers put into service by NFS as part of the site's original monitoring program. Perimeter locations chosen to obtain data from places most likely to provide highest concentrations, based on meteorological data.
- AFRSPRD** Perimeter location chosen to obtain data from the place most likely to provide highest ground-level release concentrations; choice of location based on meteorological data. AFRSPRD is on WVDP property but outside the main plant operations fence line. I-129 and H-3 are sampled here because the sampling trains were easy to incorporate and the location was most likely to receive effluent releases.
- AFBOEHN** Perimeter location chosen to obtain data from the place most likely to provide highest elevated release concentrations based on meteorological data. AFBOEHN is located on privately owned property at the perimeter.
- AFGRVAL** DOE/EP-0023, 4.2.3  
  
Off-site (remote) sampler considered to be representative of natural background radiation. Located on privately owned property 29 kilometers south of the site (typically upwind). I-129 and H-3 are sampled here also.
- AFDNKRR** DOE/EP-0023, 4.2.3  
  
Off-site (remote) sampler considered to be representative of natural background radiation. Located 50 kilometers west of the site (upwind) on privately owned property.
- AFWEVAL** DOE/EP-0023, 4.2.3  
  
Off-site (remote) sampler located on private property in nearby community within 15 kilometers of the site (southeast).
- AFSPRVL** DOE/EP-0023, 4.2.3.  
  
Off-site (remote) sampler located on private property in nearby community within 15 kilometers of the site (north).
- AFBLKST** DOE/EP-0023, 5.7.4.  
  
Off-site monitoring of bulk storage warehouse, near site perimeter.
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**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**FALLOUT, SEDIMENT, AND SOIL**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/ Composite Frequency</b>
<b>AFDHFOP</b> 2.5 km SW  <b>AFFXFOP</b> 3.0 km SSE  <b>AFTCFOP</b> 3.7 km NNW  <b>AF24FOP</b> 2.0 km NE  <b>ANRGFOP</b> Met tower (original) on-site	Collection of fallout particulate and precipitation around WNYNSC perimeter  <u>Reported in:</u> • Annual Site Environmental Report	Integrating liquid	→ Monthly	→ 12 each location	→ Gross alpha/beta, H-3, pH, gamma isotopic
<b>SF Soil Series</b> Surface soil (at each of ten air samplers)	Long-term fallout accumulation  <u>Reported in:</u> • Annual Site Environmental Report	Surface plug composite soil	→ Annually	→ 1 each location	→ Gamma isotopic, Sr-90, Pu-239, Am-241, plus U-isotopic and Total U at SFRSPRD, SFBOEHN, and SFGRVAL
<b>SFCCSED</b> Cattaraugus Creek at Felton Bridge  <b>SFSDSED</b> Cattaraugus Creek at Springville Dam  <b>SFBISED</b> Cattaraugus Creek at Bigelow Bridge (background)	Deposition in sediment downstream of facility effluents  <u>Reported in:</u> • Annual Site Environmental Report	Grab stream sediment	→ Semiannually (semiannual SFSDSED to NYSDOH)	→ 2 each location	→ Gross alpha/beta, gamma isotopic, and Sr-90
<b>SFTCSED</b> Buttermilk Creek at Thomas Corners Road  <b>SFBCSED</b> Buttermilk Creek at Fox Valley Road (background)			→ Annually	→ 1 each location (SFTCSED and SFBCSED only; annual SFBCSED to NYSDOH)	→ U/Pu isotopic, Total U, Am-241
<b>SN On-site Soil Series:</b>  <b>SNSW74A</b> (Near WNSW74A)  <b>SNSWAMP</b> (Near WNSWAMP)  <b>SNSP006</b> (Near WNSP006)	<u>Reported in:</u> • Special Report	Surface plug or grab	→ Annually	→ 1 each location	→ Gamma isotopic, Sr-90, Pu-239, Am-241, U-isotopic, Total U, Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:  
FALLOUT, SEDIMENT, AND SOIL**

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**Sampling Rationale**

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<b>AFDHFOP</b>	DOE/EP-0023, 4.7.
<b>AFFXFOP</b>	
<b>AFTCFOP</b>	
<b>AF24FOP</b>	Collection of fallout particles and precipitation around the site perimeter at established air sampling locations. Indicates short-term effects.
<b>ANRGFOP</b>	Collection of fallout particles and precipitation on-site at the meteorological tower. Indicates short-term effects.
<b>SF Soil Series</b>	DOE/EH-0173T, 5.9.1.
	<b>SFWEVAL</b> (West Valley), <b>SFFXVRD</b> (Fox Valley Road), <b>SFSPRVL</b> (Springville), <b>SFTCORD</b> (Thomas Corners), <b>SFRT240</b> (Route 240), <b>SFDNKRK</b> (Dunkirk), <b>SFBOEHN</b> (Boehn Road-Dutch Hill), <b>SFGRVAL</b> (Great Valley), <b>SFRSPRD</b> (Rock Springs Road), <b>SFBLKST</b> (bulk storage warehouse): Collection of long-term fallout data at established air sampler locations via soil sampling.
<b>SFTCSED</b>	Sediment deposition in Buttermilk Creek immediately downstream of all facility liquid effluents.
<b>SFBCESED</b>	Sediment deposition in Buttermilk Creek upstream of facility effluents (background).
<b>SFCCSED</b>	Sediment deposition in Cattaraugus Creek at Felton Bridge. Location is first access point to Cattaraugus Creek downstream of the confluence with Buttermilk Creek.
<b>SFSDSED</b>	Sediment deposition in Cattaraugus Creek at Springville dam. Reservoir provides ideal settling and collection location for sediments downstream of Buttermilk Creek confluence. Located downstream of <b>SFCCSED</b> .
<b>SFBISED</b>	Sediment deposition in Cattaraugus Creek at Bigelow Bridge. Location is upstream of the Buttermilk Creek confluence and serves as a Cattaraugus Creek background location.
<b>SN Soil Series</b>	DOE/EH-0173T, 5.9.1. On-site soil.
<b>SNSW74A</b>	Surface soil (sediment) near <b>WNSW74A</b> . Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern flow (i.e., most likely area of radiological deposition/accumulation).
<b>SNSWAMP</b>	Surface soil (sediment) near <b>WNSWAMP</b> . Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern flow (i.e., most likely area of radiological deposition/accumulation).
<b>SNSP006</b>	Surface soil (sediment) near <b>WNSP006</b> . Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern flow (i.e., most likely area of radiological deposition/accumulation).

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**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE BIOLOGICAL**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/ Composite Frequency</b>
<p><b>BFFCATC</b> Cattaraugus Creek downstream of the Buttermilk Creek confluence</p> <p><b>BFFCTRL</b> Control sample from nearby stream not affected by WVDP (7 km or more upstream of site effluent point)</p> <p><b>BFFCATD</b> Cattaraugus Creek downstream of Springville Dam</p>	<p>Fish in waters up- and downstream of facility effluents</p> <p><u>Reported in:</u></p> <ul style="list-style-type: none"> <li>Annual Site Environmental Report</li> </ul>	Individual collection, biological	<p>Semiannually, (Samples at <b>BFFCATC</b> and <b>BFFCTRL</b> shared with NYSDOH)</p> <p>Annual (<b>BFFCATD</b> only)</p>	<p>→ 20 fish each location</p> <p>→ 10 fish</p>	<p>→ Gamma isotopic and Sr-90 in edible portions of each individual fish</p> <p>→ Gamma isotopic and Sr-90 in edible portions of each individual fish</p>
<p><b>BFMREED</b> Dairy farm, 3.8 km NNW</p> <p><b>BFMCOBO</b> Dairy farm, 9 km WNW</p> <p><b>BFMCTLS</b> Control location 25 km S</p> <p><b>BFMCTLN</b> Control location 30 km N</p> <p><b>BFMWIDR</b> Dairy farm, 3.5 km SE of site</p> <p><b>BFMHAUR</b> Dairy farm 2.5 km SSW</p>	<p>Milk from animals foraging around facility perimeter</p> <p><u>Reported in:</u></p> <ul style="list-style-type: none"> <li>Annual Site Environmental Report</li> </ul>	Grab biological	<p>→ Monthly (<b>BFMREED</b>, <b>BFMCOBO</b>, <b>BFMCTLS</b>, <b>BFMCTLN</b>. Samples at <b>BFMREED</b> and <b>BFMCOBO</b> shared with NYSDOH)</p> <p>Annual (<b>BFMWIDR</b>, <b>BFMHAUR</b>)</p>	<p>→ 12 monthly samples composited to 4 each location</p> <p>→ 1 each location</p>	<p>→ Quarterly composite for gamma isotopic, Sr-90, H-3, and I-129</p> <p>→ Gamma isotopic, Sr-90, H-3, and I-129</p>

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ENVIRONMENTAL SURVEILLANCE:

OFF-SITE BIOLOGICAL

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Sampling Rationale

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**BFFCATC** DOE/EH-0173T, 5.11.1.1.

**BFFCATD**

Radioactivity may enter a food chain in which fish are a major component and are consumed by the local population.

**BFFCTRL** Background control fish sample.

**BFMREED** DOE/EH-0173T, 5.8.2.1.

**BFMCOBO**

**BFMWIDR**

**BFMHAUR**

Milk from animals foraging around facility perimeter. Milk is consumed by all age groups and is frequently the most important food that could contribute to the radiation dose. Dairy animals pastured near the site and at two background locations allow adequate monitoring.

**BFMCTLS** Background control milk samples collected far from site.

**BFMCTLN**

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<b>BFVNEAR</b> Nearby locations  <b>BFVCTRL</b> Remote locations (16 km or more from facility)  <b>BFHNEAR</b> Beef cattle/milk cow forage from near-site location	Fruit and vegetables grown near facility perimeter, downwind if possible  <u>Reported in:</u> • Annual Site Environmental Report	Grab biological (fruits and vegetables)	→ Annually, at harvest ( <b>BFVNEAR</b> and <b>BFVCTRL</b> )	→ 3 each (split with NYSDOH)	→ Gamma isotopic and Sr-90 analysis of edible portions, H-3 in free moisture
<b>BFHCTLS</b> or <b>BFHCTLN</b> Beef cattle/milk cow forage from control location south or north		Grab biological	→ Annually ( <b>BFHNEAR</b> , <b>BFHCTLS</b> , or <b>BFHCTLN</b> )	→ 1 each location	→ Gamma isotopic, Sr-90
<b>BFBNEAR</b> Beef animal from nearby farm in downwind direction  <b>BFBCTRL</b> Beef animal from control location 16 km or more from facility	Meat (beef foraging near facility perimeter, downwind if possible)  <u>Reported in:</u> • Annual Site Environmental Report	Grab biological	→ Semiannually	→ 2 each location	→ Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture
<b>BFDNEAR</b> Deer in vicinity of the site  <b>BFDCCTRL</b> Control deer 16 km or more from facility		Individual collection biological	→ Annually, during hunting season ( <b>BFDNEAR</b> sample split with NYSDOH)  During year as available ( <b>BFDCCTRL</b> sample split with NYSDOH)	→ 3  → 3	→ Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture  → Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture

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**OFF-SITE BIOLOGICAL**

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**Sampling Rationale**

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**BFVNEAR** DOE/EH-0173T, 5.8.2.2.

Fruits and vegetables collected from areas near the site. Collected, if possible, from areas near the site predicted to have worst case downwind concentrations of radionuclides in air and soil. Sample analysis reflects steady state/chronic uptake or contamination of foodstuffs as a result of site activities. Possible pathway to humans or indirectly through animals.

**BFVCTRL** DOE/EH-0173T, 5.8.2.2

Fruits and vegetables collected from area remote from the site. Background fruits and vegetables collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

**BFHNEAR** DOE/EH-0173T, 5.8.2.2

Hay collected from areas near the site. See note under near-site fruits and vegetables (**BFVNEAR**). Indirect pathway to humans through animals. Collected with either beef or milk sample location.

**BFHCTLS** DOE/EH-0173T, 5.8.2.2.

**BFHCTLN**

Hay collected from areas remote from the site. Background hay collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

**BFBNEAR** DOE/EH-0173T, 5.8.2.3.

Beef collected from animals raised near the site. Following the rationale for vegetable matter collected near site (**BFVNEAR** and **BFHNEAR**), edible flesh portion of beef animals is analyzed to determine possible radionuclide content passable directly to humans. For animals foraging downwind in areas of maximum probable site impact.

**BFBCTRL** DOE/EH-0173T, 5.8.2.3.

Beef collected from animals raised far from the site. Background beef collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

**BFDNEAR** DOE/EH-0173T, 5.8.3.

Venison from deer herd found living near the site. Same as for beef (**BFBNEAR**).

**BFDCTRL** DOE/EH-0173T, 5.8.3.

Venison from deer herd living far from the site. Background deer meat collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE DIRECT RADIATION**

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
<p><b>DFTLD Series</b> Thermoluminescent dosimetry (TLD) Off-site:</p> <p><b>#1-16</b> At each of 16 compass sectors at nearest accessible perimeter point</p> <p><b>#17</b> "5 Points" landfill, 19 km SW (background)</p> <p><b>#20</b> 1,500 m NW (downwind receptor)</p> <p><b>#21</b> Springville 7 km N</p> <p><b>#22</b> West Valley 5 km SSE</p> <p><b>#23</b> Great Valley 9 km S (background)</p> <p><b>#37</b> Dunkirk 50 km NW (background)</p> <p><b>#41</b> Sardinia-Savage Road 24 km NE (background)</p>	<p>Direct radiation around facility</p> <p><u>Reported in:</u></p> <ul style="list-style-type: none"> <li>• Monthly Environmental Monitoring Trend Report (month of quarterly collection)</li> <li>• Annual Site Environmental Report</li> </ul>	<p>Integrating LiF TLD</p>	<p>→ Quarterly</p>	<p>→ 5 TLDs at each of 23 locations collected 4 times per year</p>	<p>→ Quarterly gamma radiation exposure</p>

**1993 MONITORING PROGRAM  
ENVIRONMENTAL SURVEILLANCE:**

**OFF-SITE DIRECT RADIATION**

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**Sampling Rationale**

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DOSIMETRY DOE/EH-0173T, 5.5 and DOE/EP-0023, 4.6.3.

Off-site

TLDs offer continuous integrated environmental gamma-ray monitoring and have been deployed systematically about the site. Off-site TLDs are used to verify that site activities have not adversely affected the surrounding environs.

In addition to general NRC crosschecks, a biennial HPIC gamma radiation measurement is completed at all TLD locations.

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**ON-SITE DIRECT RADIATION**

<b>Sample Location Code</b>	<b>Monitoring/Reporting Requirements</b>	<b>Sampling Type/Medium</b>	<b>Collection Frequency</b>	<b>Total Annual Sample Collections</b>	<b>Analyses Performed/ Composite Frequency</b>
<p><b>DNTLD Series</b> Thermoluminescent dosimetry (TLD) On-site:</p> <p><b>#18, #19, #33</b> At three corners of SDA</p> <p><b>#24, #26-32, #34</b> (9) at security fence around site</p> <p><b>#35, #36, #38-40</b> (5) On-site near operational areas</p> <p><b>#25</b> Rock Springs Road 500 m NNW of plant</p>	<p>Direct radiation on facility grounds</p> <p><u>Reported in:</u></p> <ul style="list-style-type: none"> <li>• Monthly Environmental Monitoring Trend Report (month of quarterly collection)</li> <li>• Annual Site Environmental Report</li> </ul>	Integrating LiF TLD	→ Quarterly	→ 5 TLDs at each of 18 sites collected 4 times per year	→ Quarterly gamma radiation exposure

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**ON-SITE DIRECT RADIATION**

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**Sampling Rationale**

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DOSIMETRY DOE/EH-0173T, 5.4 and 5.5.

On-site

On-site TLDs monitor waste management units and verify that the potential dose rate to the general public (i.e., Rock Springs Road) is below 100 mrem/annum from site activities.

Potential TLD sampling locations are continually evaluated with respect to site activities.

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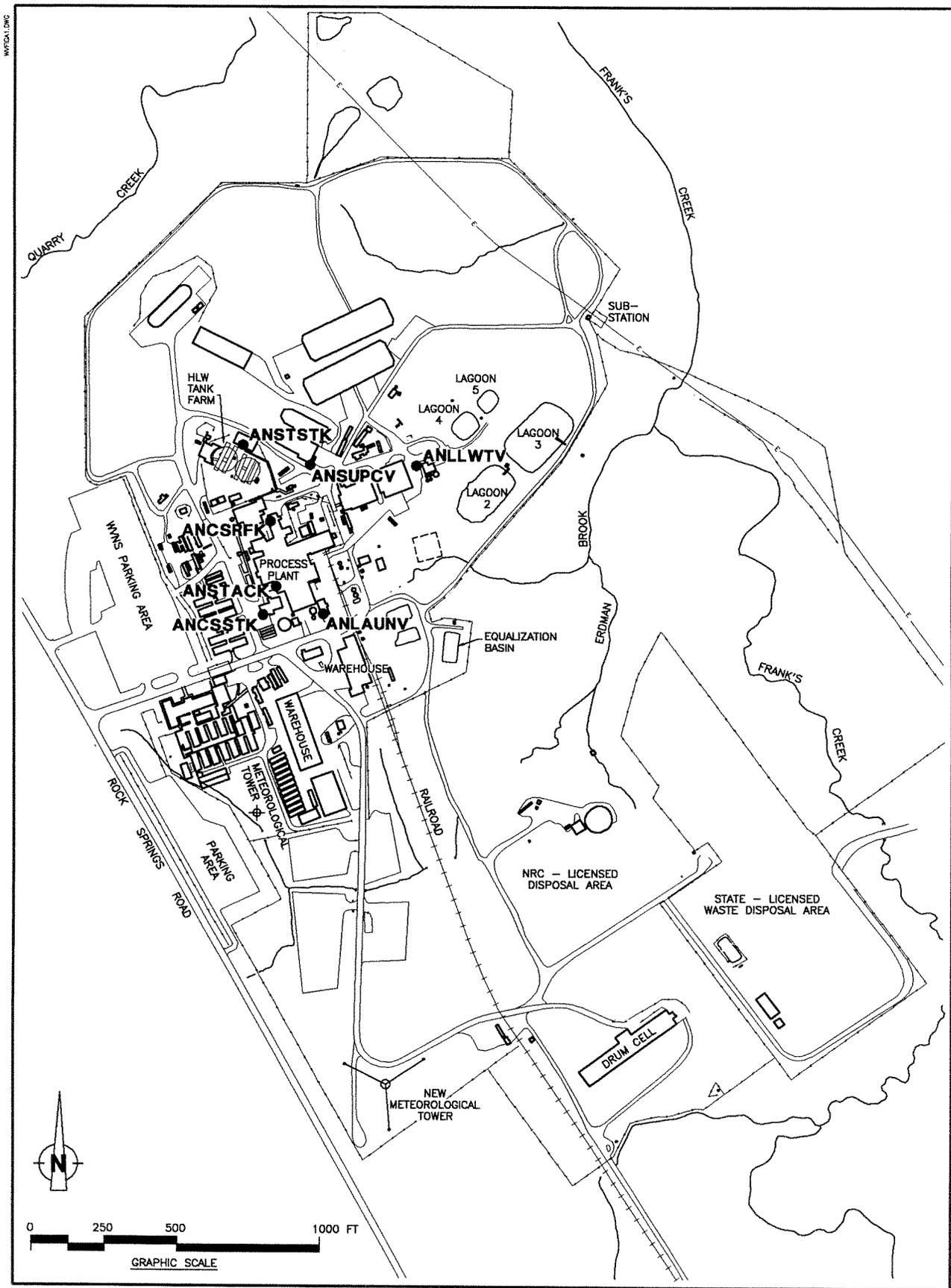


Figure A-1. On-site Air Effluent Monitoring Points.

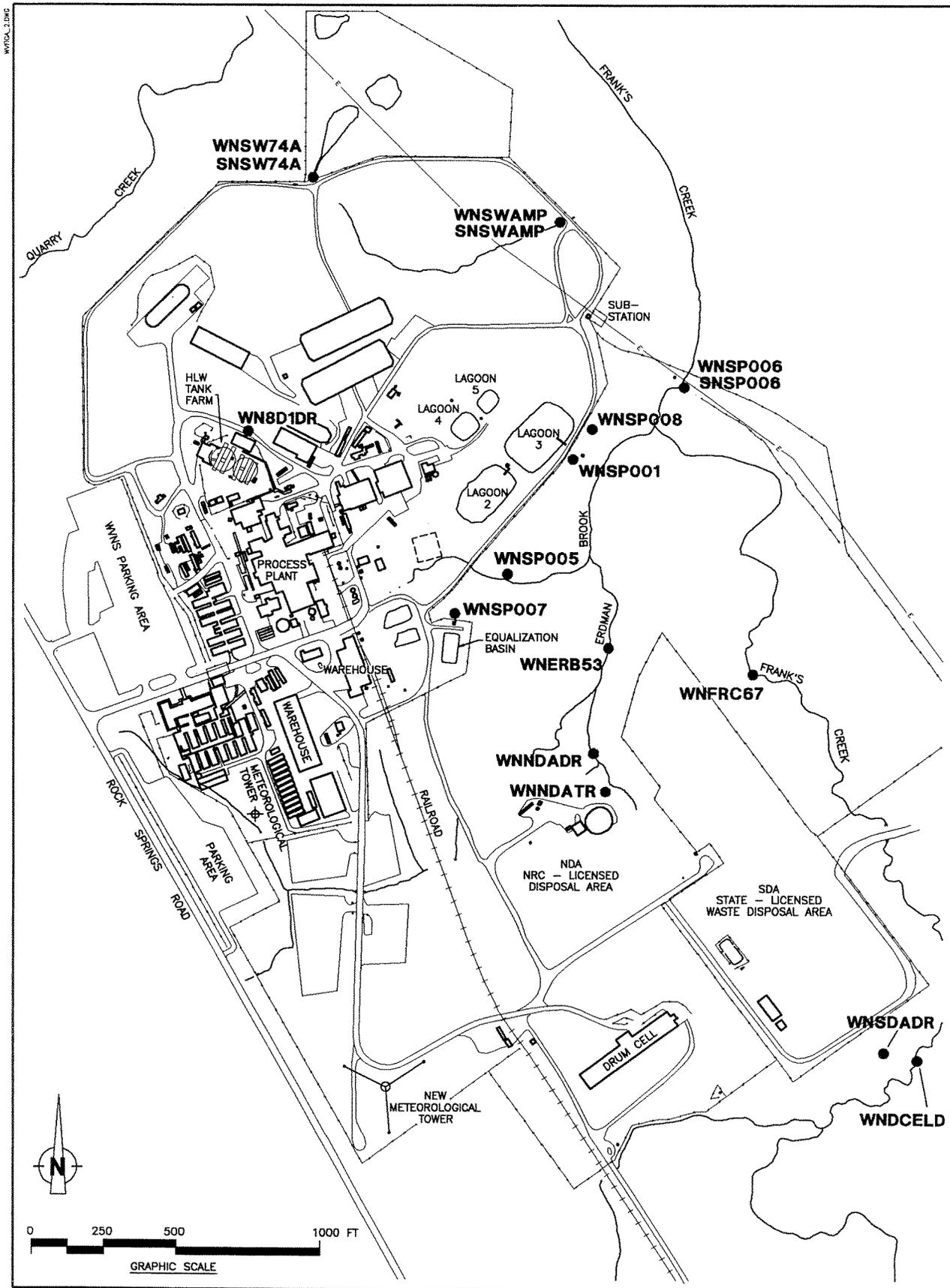


Figure A-2. Sampling Locations for On-site Surface Water and Soil.

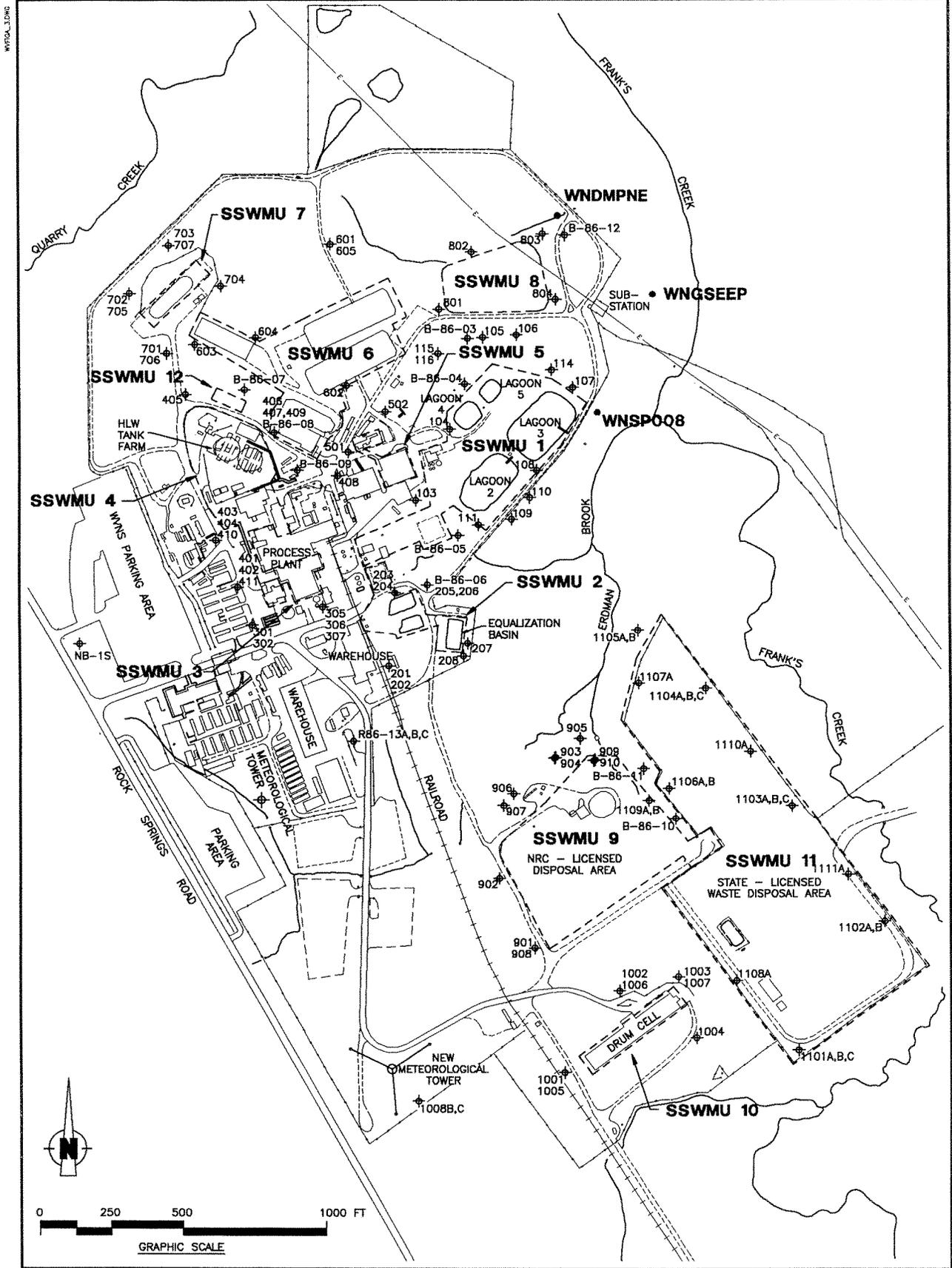


Figure A-3. On-site Groundwater Monitoring Network.

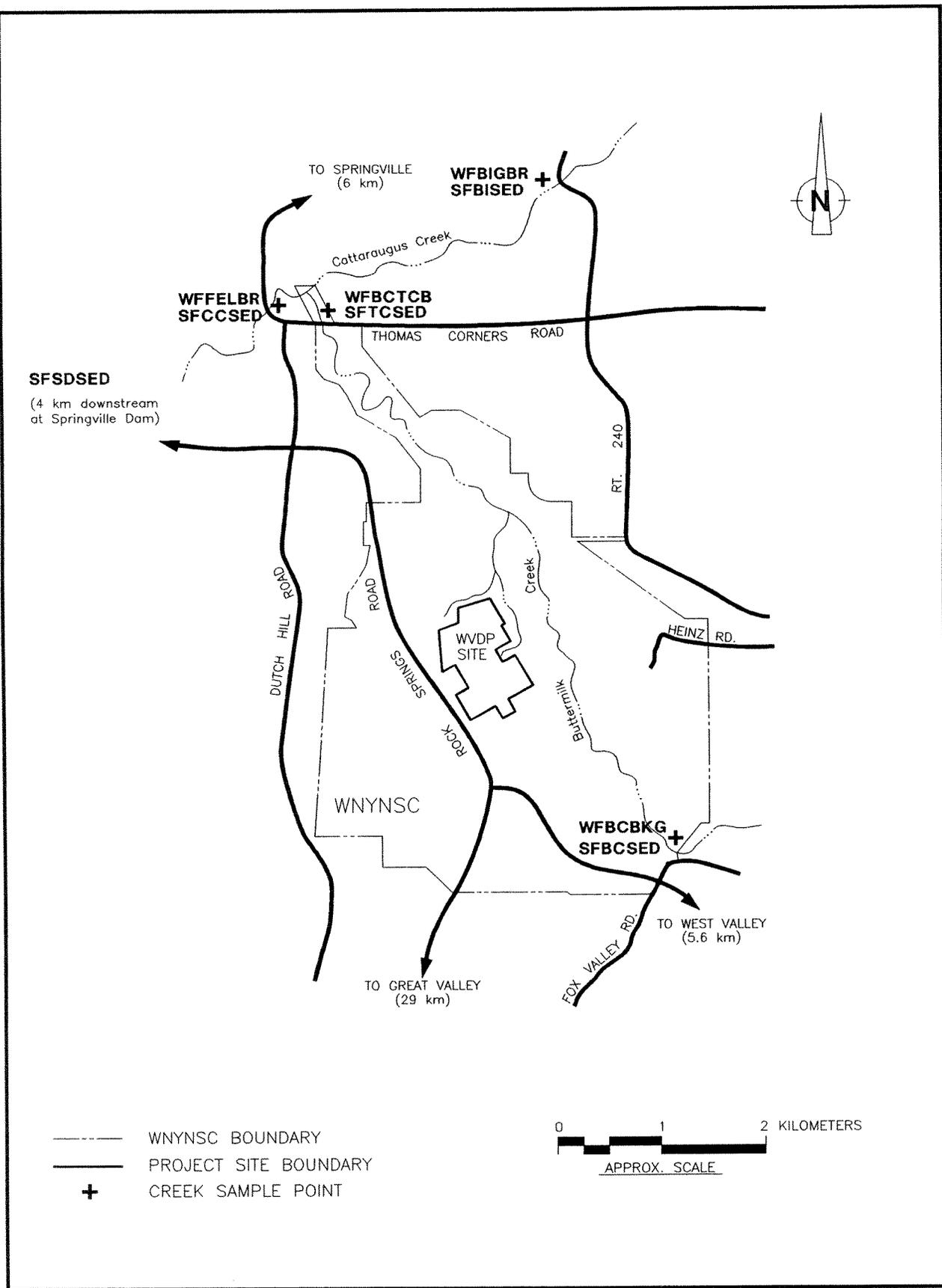


Figure A-4. Location of Off-site Surface Water Samplers and Sediment Collection.

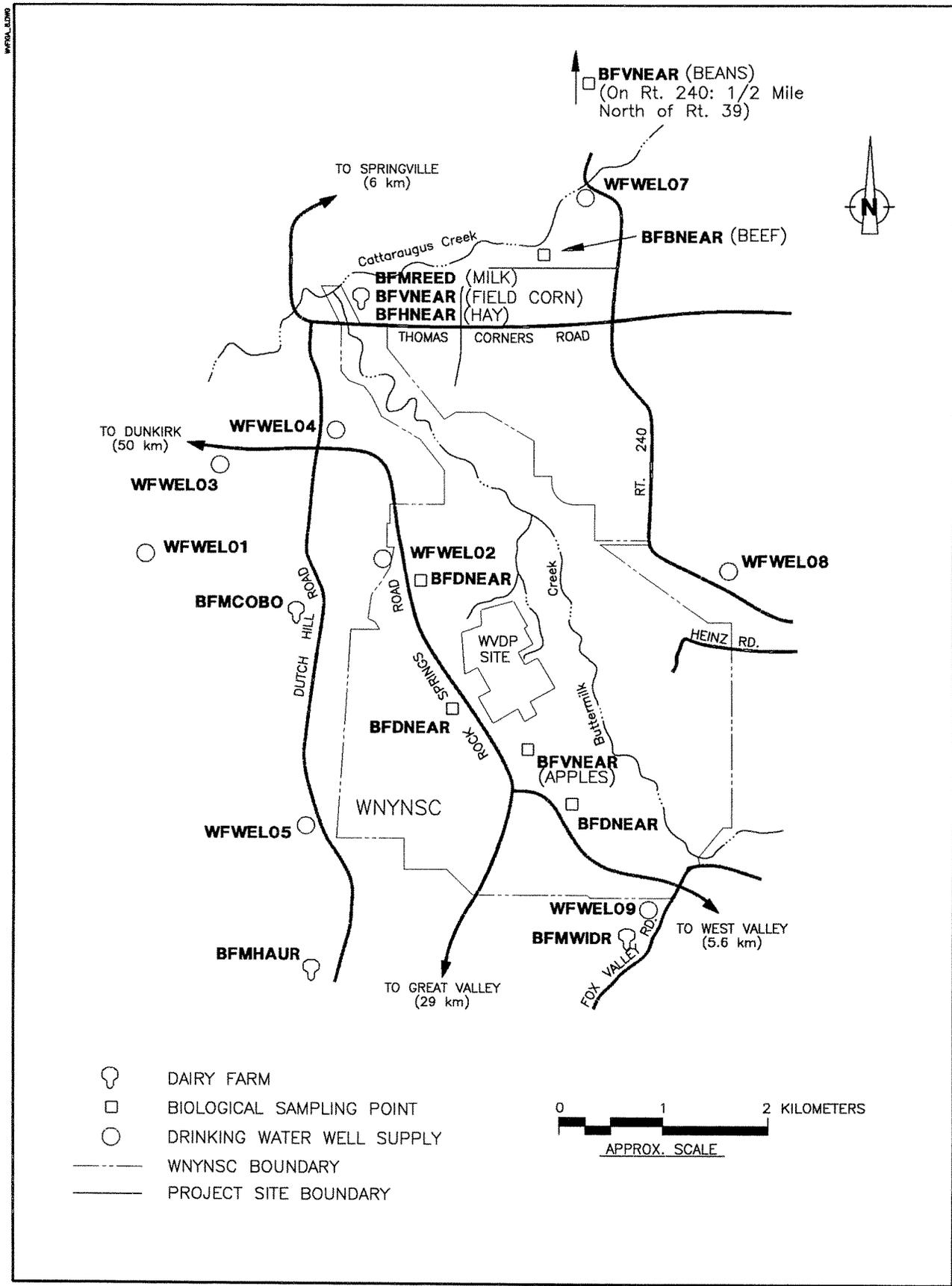


Figure A-5. Near-site Drinking Water and Biological Sample Points.

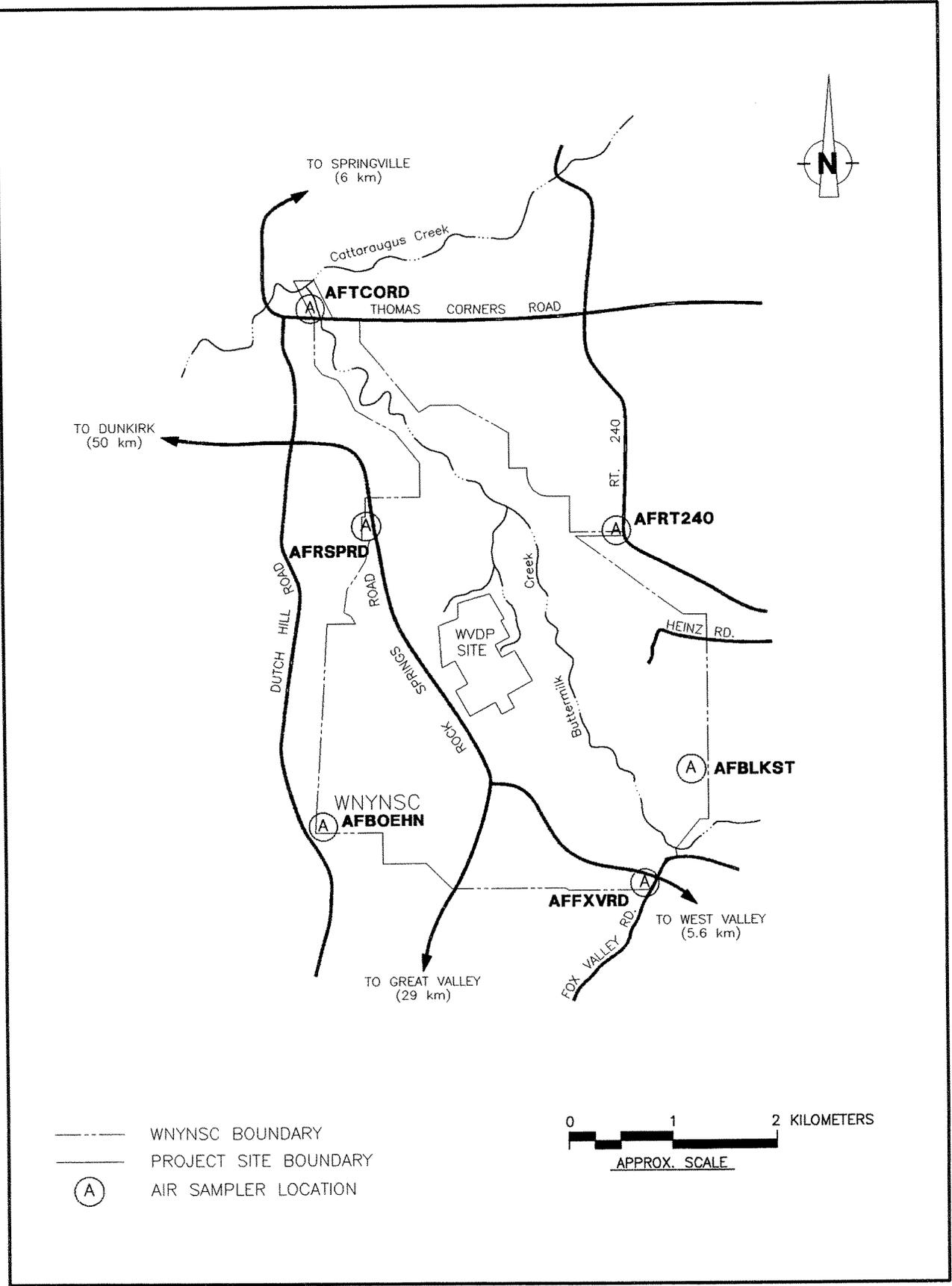


Figure A-6. Location of Perimeter Air Samplers.

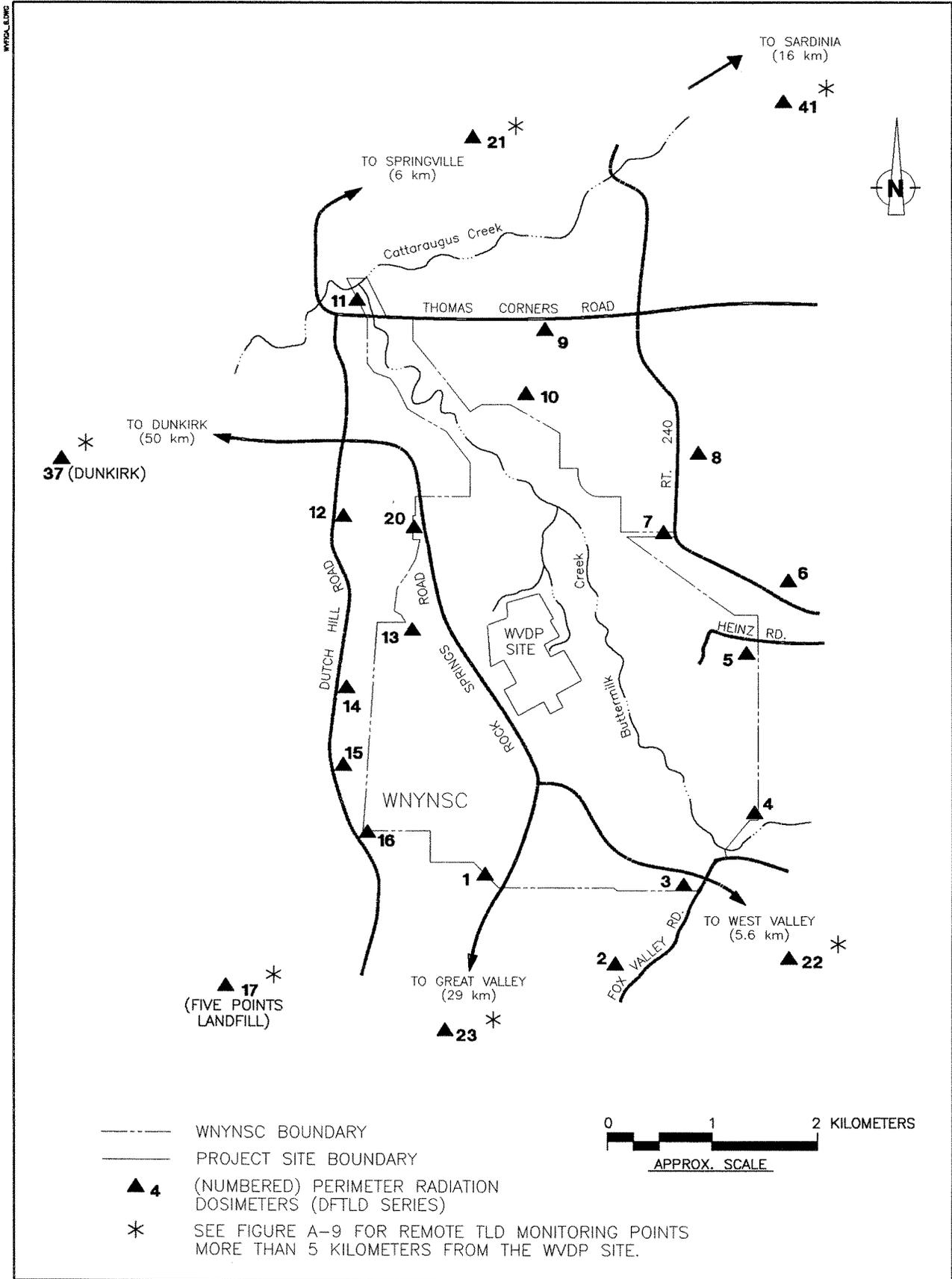


Figure A-7. Location of Off-site Thermoluminescent Dosimetry (TLD).

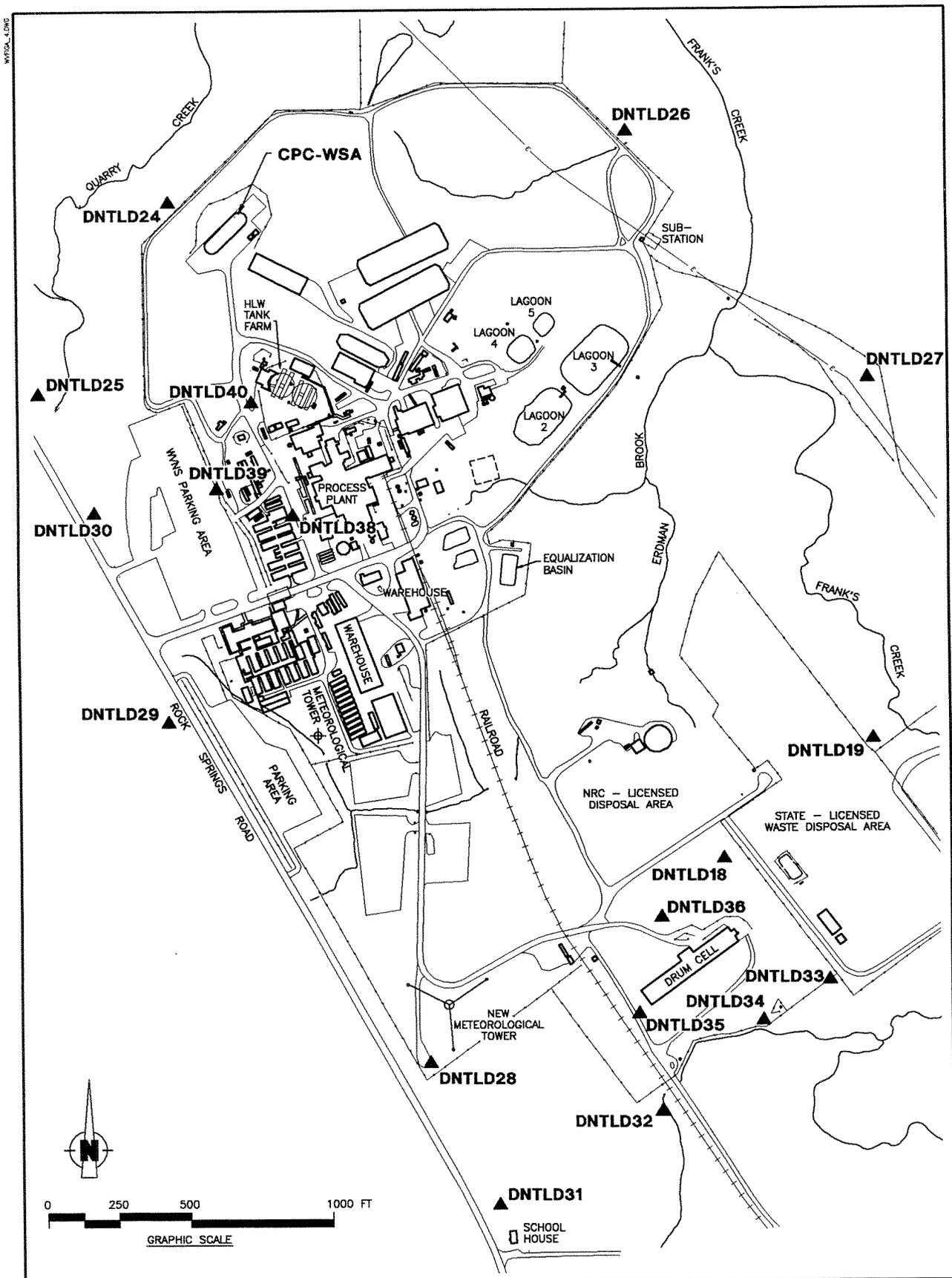
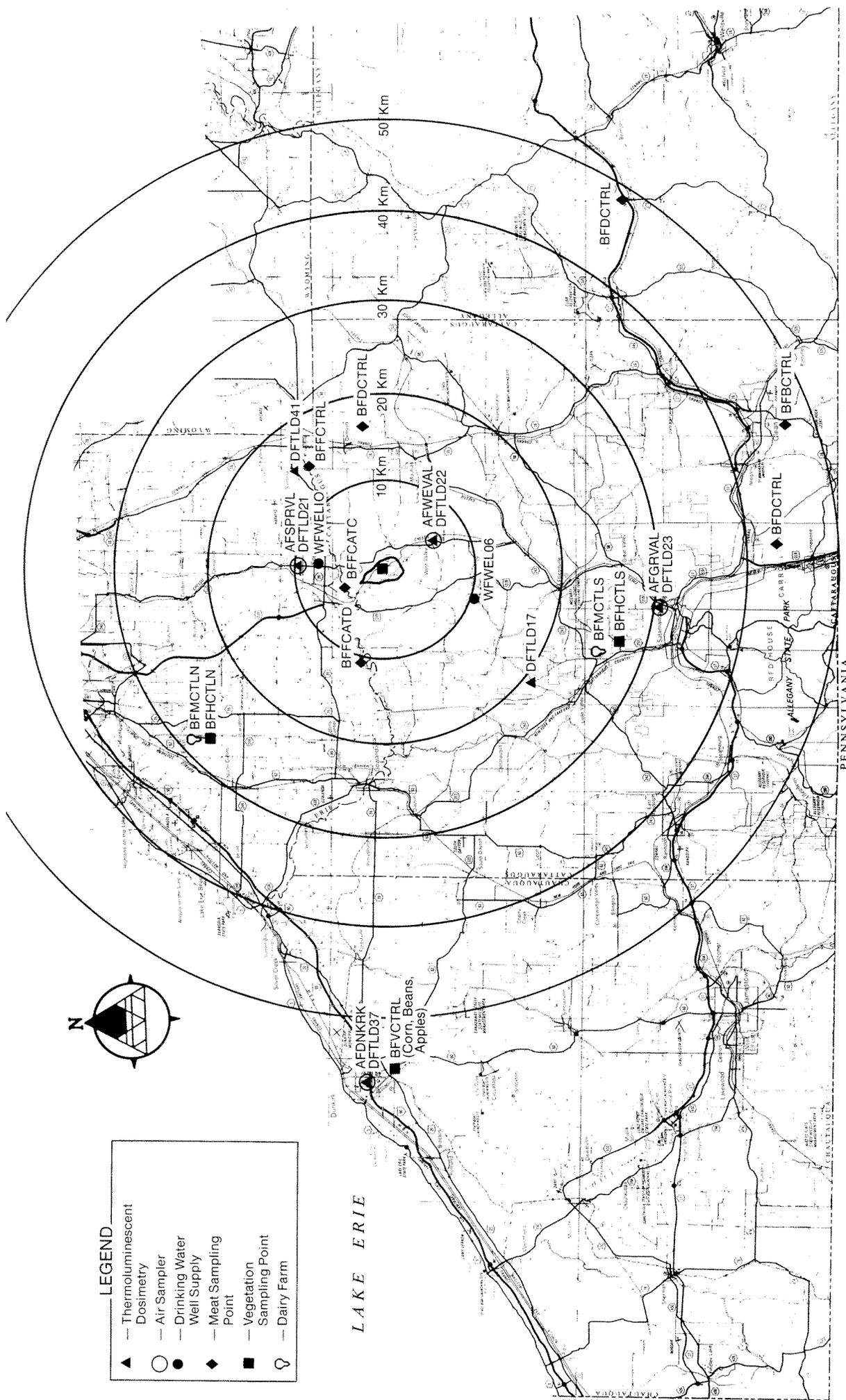


Figure A-8. Location of On-site Thermoluminescent Dosimetry (TLD).



REF: NYSDOT, New York State Map — West Sheet,  
 1:250,000, Revised 1982



Figure A-9. Environmental Sample Points more than 5 kilometers from the WVDP Site