1992 MONITORING PROGRAM
ENVIRONMENTAL SURVEILLANCE:

ON-SITE SURFACE WATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WNFRC67 Frank's Creek E of SDA	Drains NYS Low-Level Waste Disposal Area Reported in: • Internal Review • NYSERDA	Grab liquid	→ Monthly (samples collected simultaneously for NYSDOH)	→ 12	→ Gross alpha/beta, H-3, pH
WNERB53 Erdman Brook N of Disposal Areas	Drains NYS and WVDP disposal areas Reported in: • Internal Review • NYSERDA	Grab liquid	→ Weekly → Weekly sample collected for NYSDOH	→ 52 → 12	→ Gross alpha/beta, H-3, pH
WNNDADR Drainage between NDA and SDA	Drains WVDP disposal and storage area Reported in: • Internal Review • Monthly Environmental Monitoring Trend Analysis	Timed continuous composite liquid	→ Weekly	→ 52 Weekly samples composited to 12 Weekly samples composited to 4	→ pH → Monthly composite for gross alpha/beta, gamma isotopic, H-3 → Quarterly composite for Sr-90, I-129
WNDCELD Drainage S of Drum Cell	Drains WVDP storage area Reported in: • Internal Review	Grab liquid	→ Monthly*	→ 12 Monthly samples composited to 4	→ pH, gross alpha/beta, gamma isotopic, H-3 → Quarterly composite for Sr-90, I-129

*Reduction of frequency of drum cell monitoring from weekly to monthly is pending DOE approval.

	Sampling Rationale
WNFRC67	DOE/EH-0173T, 5.10.1.1. Monitoring the potential influence of both the New York State low-level waste disposal area (SDA) and drum cell drainage into Frank's Creek east of the SDA and upstream of the confluence with Erdman Brook.
WNERB53	DOE/EH-0173T, 5.10.1.1. Monitors the potential influence of the drainages from the SDA and the WVDP disposal area into Erdman Brook upstream of the confluence with Frank's Creek.
WNNDADR	DOE/EH-0173T, 5.10.1.1. Monitors the potential influence of the WVDP storage and disposal area drainage into Lagoon Road Creek upstream from confluence with Erdman Brook.
WNDCELD	DOE/EH-0173T, 5.10.1.1 Monitors potential influence of drum cell drainage into Frank's Creek south of the SDA and upstream of WNFRC67.

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ON-SITE POTABLE WATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WNDNK Series Site Potable Water includes: **WNDNKMS** Maintenance Shop Drinking Water **WNDNKMP** Main Plant Drinking Water	Sources of potable water within site perimeter Reported in: • Internal Review	Grab liquid	→ Monthly	→ 12 each per location	→ Gross alpha/beta, H-3, pH
WNDNKEL Environmental Lab Drinking Water **WNDNKUR** Potable Water Storage Tank (UR)		Grab liquid	→ Annually*	→ 1 each location	→ Toxic metals, pesticides, chemical pollutants

*WNDNKEL and WNDKUR only.

	Sampling Rationale
WNDNK Series	Site drinking water; generally according to DOE/EH-0173T, 5.10.1.3. Potable water sampling carried out to confirm no migration of radiological and/or nonradiological contamination into the site's drinking water supply.
WNDNKMS	Site drinking water; generally according to DOE/EH-0173T, 5.10.1.3. Potable water sampled at the maintenance shop in order to monitor a point that is at an intermediate distance from the point of potable water generation and that is used heavily by site personnel.
WNDNKMP	Site drinking water; generally according to DOE/EH-0173T, 5.10.1.3. Same rationale as WNDNKMS but sampled at the main plant water fountain.
WNDNKEL	Site drinking water; generally according to DOE/EH-0173T, 5.10.1.3. Potable water sampled at the Environmental Laboratory in order to monitor the point farthest away from the point of potable water generation.
WNDNKUR	Site drinking water; generally according to DOE/EH-0173T, 5.10.1.3. Sampled at the utility room to monitor the point closest to the point of potable water generation.

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SURFACE WATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WNSTAW Series On-site standing water ponds not receiving effluent includes: **WNSTAW4** Border pond SW of AFRT240 **WNSTAW5** Border pond SW of DFTLD13 **WNSTAW6** Borrow pit NE of project facilities **WNSTAW9** North reservoir near intake **WNSTAWB** Background pond at Sprague Brook maintenance building	Water within vicinity of plant airborne or groundwater effluent Reported in: • Internal Review	Grab liquid	→ Annually	→ 1* each location	→ Gross alpha/beta, H-3, pH, conductivity, chloride, Fe, Mn, Na, phenols, SO_4

*Sampling depends upon on-site ponding conditions during the year.

Sampling Rationale	
WNSTAW Series	DOE-EH-0173T, 5.10.1.1. Monitoring of on- and off-site standing waters at locations listed below. Although none receive effluent directly, the potential for contamination is present except at the background location. Former collecting sites 1, 2, 3, 7, and 8 were deleted from the monitoring program because they were built over or are now dry. This reduction of sites is pending DOE approval.
WNSTAW4	Border pond located south of AFRT240. Chosen to be a location for obtaining high potential concentration, based on meteorological data. Perimeter location adjacent to a working farm. Drainage extends through private property and is accessible to public.
WNSTAW5	Border pond located west of Project facilities near the perimeter fence and DFTLD13. Chosen to be a location for obtaining high potential concentration, based on meteorological data. Location is adjacent to private residence and potentially accessible by the general public.
WNSTAW6	Borrow pit northeast of Project facilities just outside of inner security fence. Considered to be the closest standing water to the main plant and high-level waste facilities (in lieu of the availability of WNSTAW1).
WNSTAW9	North reservoir near intake. Chosen to provide data in the event of potentially contaminated site potable water supply. Location is south of main plant facilities.
WNSTAWB	Pond located near the Sprague Brook maintenance building. Considered a background location approximately 14 km north of the WVDP.

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ON-SITE GROUNDWATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
Low-Level Waste Treatment Facilities (SSWMU #1) WNW 0103 U 0104 U 0105 0106 0107 0108 0109 0110 0111 0114 0115 0116 8603 8604 8605 Surface: WNSP008 Miscellaneous Small Units (SSWMU #2) WNW 0201 U 0202 U 0203 U 0204 U 0205 0206 0207 0208 8606	Groundwater monitoring wells around site super solid waste management units (SSWMUs) Reported in: • Annual Environmental Monitoring Report • RCRA RFI Reports	Grab liquid	→ 4 times semiannually	→ 8 each well	→ Gross alpha/beta, H-3, gamma isotopic, TOC, TOX, VOA
		Direct measurement of sample discharge water	→ Before and after grab sample collection	→ 16 each well	→ Temperature, pH, conductivity
		Grab liquid	→ Semiannually	→ 2 each well	→ Cl, Mn, Na, K, Ca, Mg, Fe, Phenols, SO_4, NH_3, NO_3+NO_2-N, HCO_3, CO_3
		Grab liquid	→ 4 times annually - first year of monitoring only	→ 4 each well	→ As, Ba, Cd, Cr, F, Pb, Hg, Se, Ag, Endrin, Lindane, Methoxychlor, 2,4,5-TP (Silvex), 2,4-D, Toxaphene, Radium, NO_3+NO_2-N, Turbidity

NOTE: "U" designates upgradient well; "B" designates background well; the remainder are downgradient. Sampling and analysis conducted as outlined in the RCRA Groundwater Technical Enforcement Guidance Document (EPA OSWER 9950.1) and the Statistical Analysis of Monitoring Data at RCRA Facilities (EPA/530-SW-89-026). Well WNW8604 is being re-evalutated for possible SSWMU reassignment.

	Sampling Rationale
On-Site Groundwater	DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F. The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determination of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs. The groundwater monitoring program is covered in the "Sampling and Analysis Plan (SAP) Groundwater Monitoring Network," Draft W, October 1990, in the Annual Site Groundwater Protection Management Program Plan, WVDP-091, and in the 1991 RFI Workplan.
SSWMU #1	Low-level waste treatment facilities, including four active lagoons, lagoons 2, 3, 4, and 5 and an inactive, filled-in lagoon, lagoon 1.
SSWMU #2	Miscellaneous small units, including the sludge pond, the solvent dike, the paper incinerator, and the kerosene tank.

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ENVIRONMENTAL SURVEILLANCE:

ON-SITE GROUNDWATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
Liquid Waste Treatment System (SSWMU #3) WNW **0301 U** **0302 U** **0305** xx**0306** **0307** **NB1S B** HLW Storage and Processing Tank (SSWMU #4) WNW **0401 U** **0402 U** **0403 U** **0404 U** **0405** **0406** **0407** **0408** **0409** xx**0410 U** xx**0411 U** **8607** **8608** **8609**	Groundwater monitoring wells around site super solid waste management units (SSWMUs) Reported in: • Annual Environmental Monitoring Report • RCRA RFI Reports	Grab liquid	→ 4 times semiannually	→ 8 each well	→ Gross alpha/beta, H-3, gamma isotopic, TOC, TOX, VOA
		Direct measurement of sample discharge water	→ Before and after grab sample collection	→ 16 each well	→ Temperature, pH, conductivity
		Grab liquid	→ Semiannually	→ 2 each well	→ Cl, Mn, Na, K, Ca, Mg, Fe, Phenols, SO_4, NH_3, NO_3+NO_2-N, HCO_3, CO_3
		Grab liquid	→ 4 times annually - first year of monitoring only	→ 4 each well	→ As, Ba, Cd, Cr, F, Pb, Hg, Se, Ag, Endrin, Lindane, Methoxychlor, 2,4,5-TP (Silvex), 2,4-D, Toxaphene, Radium, NO_3+NO_2-N, Turbidity

NOTE: "U" designates upgradient well; "B" designates background well; the remainder are downgradient.

xx- Installed wells that are dry and not used for groundwater monitoring.

Sampling Rationale	
On-Site Groundwater	DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F. The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determination of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs. The groundwater monitoring program is covered in the "Sampling and Analysis Plan (SAP) Groundwater Monitoring Network" Draft W, October 1990, in the Annual Site Groundwater Protection Management Program Plan, WVDP-091, and in the 1991 RFI Workplan.
SSWMU #3	Liquid waste treatment system containing liquid effluent from the supernatant treatment system.
SSWMU #4	High-level waste storage and processing area, including the high-level radioactive waste tanks, the supernatant treatment sytem, and the vitrification facility.

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ENVIRONMENTAL SURVEILLANCE:

ON-SITE GROUNDWATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
Maintenance Shop Leach Fields (SSWMU #5) WNW **0501 U** **0502** Low-Level Waste Storage Area (SSWMU #6) WNW **0601** **0602** **0603 U** **0604** **0605** **8607 U** **8608 U** CPC Waste Storage Area (SSWMU #7) WNW **0701 U** **0702** **0703** **0704** **0705** **0706 U** **0707**	Groundwater monitoring wells around site super solid waste management units (SSWMUs) Reported in: • Annual Environmental Monitoring Report • RCRA RFI Reports	Grab liquid	→ 4 times semiannually	→ 8 each well	→ Gross alpha/beta, H-3, gamma isotopic, TOC, TOX, VOA
		Direct measurement of sample discharge water	→ Before and after grab sample collection	→ 16 each well	→ Temperature, pH conductivity
		Grab liquid	→ Semiannually	→ 2 each well	→ Cl, Mn, Na, K, Mg, Ca, Fe, Phenols, SO_4, NH_3, NO_3+NO_2-N, HCO_3, CO_3
		Grab liquid	→ 4 times annually - first year of monitoring only	→ 4 each well	→ As, Ba, Cd, Cr, F, Pb, Hg, Se, Ag, Endrin, Lindane, Methoxychlor, 2,4,5-TP (Silvex,) 2,4-D, Toxaphene, Radium, NO_3+NO_2-N, Turbidity

NOTE: "U" designates upgradient well; "B" designates background well; the remainder are downgradient.

	Sampling Rationale
On-Site Groundwater	DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F. The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determinaton of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs. The groundwater monitoring program is covered in the "Sampling and Analysis Plan (SAP) Groundwater Monitoring Network" Draft W, October 1990, in the Annual Site Groundwater Protection Management Program Plan, WVDP-091, and in the 1991 RFI Work Plan.
SSWMU #5	Maintenance shop sanitary leach field, formerly used by NFS and WVNS to process domestic sewage generated by the maintenance shop.
SSWMU #6	Low-level waste storage area includes metal and fabric structures housing low-level radioactive wastes being stored for future disposal.
SSWMU #7	Chemical process cell (CPC) waste storage area contains packages of pipes, vessels, and debris from decontamination and cleanup of chemical process cell in the former reprocessing plant.

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ON-SITE GROUNDWATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
Construction and Demolition Debris Landfill (SSWMU #8) WNW **0801 U** **0802** **0803** **0804 U** **WNGSEEP** **WNDMPNE** **8612** NRC-licensed disposal area (SSWMU #9) WNW **0901 U** **0902 U** **0903** **0904** **0905** **0906** **0907** **0908 U** **0909** **8610** **8611** RTS Drum Cell (SSWMU #10) WNW **1001 U** **1002** **1003** **1004** **1005 U** **1006** **1007** **1008b B** **1008c B**	Groundwater monitoring wells around site super solid waste management units (SSWMUs) Reported in: • Annual Environmental Monitoring Report • RCRA RFI Reports	Grab liquid	→ 4 times semiannually	→ 8 each well	→ Gross alpha/beta, H-3, gamma isotopic, TOC, TOX, VOA
		Direct measurement of sample discharge water	→ Before and after grab sample collection	→ 16 each well	→ Temperature, pH, conductivity
		Grab liquid	→ Semiannually	→ 2 each well	→ Cl, Mn, Na, K, Mg, Fe, Ca, Phenols, SO_4, NH_3, NO_3+NO_2-N, HCO_3, CO_3
		Grab liquid	→ 4 times annually - first year of monitoring only	→ 4 each well	→ As, Ba, Cd, Cr, F, Pb, Hg, Se, Ag, Endrin, Lindane, Methoxychlor, 2,4,5-TP (Silvex), 2,4-D, Toxaphene, Radium, NO_3+NO_2-N,Turbidity

NOTE: "U" designates upgradient well; "B" designates background well; the remainder are downgradient.

Sampling Rationale	
On-Site Groundwater	DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F. The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determination of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs. The groundwater monitoring program is covered in the "Sampling and Analysis Plan (SAP) Groundwater Monitoring Network," Draft W, October 1990, and in the Annual Site Groundwater Protection Management Program Plan, WVDP-091, and in the 1991 RFI Work Plan.
SSWMU #8	Construction and demolition debris landfill, used by NFS and the WVDP to dispose of nonhazardous and nonradioactive materials.
SSWMU #9	NRC-licensed disposal area (NDA) contains radioactive wastes generated by NFS and the WVDP.
SSWMU #10	Radioactive waste treatment drum cell contains stored cement-stabilized low-level radioactive waste.

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ON-SITE GROUNDWATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
State-licensed Disposal Area (SSWMU #11) **WNW** **1101a U** **1101b U** **1101c U** **1102a** **1102b** **1103a** **1103b** **1103c** **1104a** **1104b** **1104c** **1105a** **1105b** **1106a U** **1106b U** **1107a** **1108a U** **1109a U** **1109b U** **1110a** **1111a** Fuel Storage Area **WNW** **8613A** **8613B** **8613C**	Groundwater monitoring wells around site super solid waste management units (SSWMUs) Reported in: • Annual Environmental Monitoring Report • RCRA RFI Reports	Grab liquid	→ 4 times semiannually	→ 8 each well	→ Gross alpha/beta, H-3, gamma isotopic, TOC, TOX, VOA
		Direct measurement of sample discharge	→ Before and after grab sample collection	→ 16 each well	→ Temperature, pH, conductivity
		Grab liquid	→ Semiannually	→ 2 each well	→ Cl, Mn, Na, K, Mg, Pb, Ca, Fe, Phenols, SO_4, NH_3, NO_3+NO_2-N, HCO_3, CO_3
		Grab liquid	→ 4 times annually - first year of monitoring only	→ 4 each well	→ As, Ba, Cd, Cr, F, Pb, Hg, Se, Ag, Endrin, Lindane, Methoxychlor, 2,4,5-TP (Silvex), 2,4-D, Toxaphene, Radium, NO_3+NO_2-N, Turbidity

NOTE: "U" designates upgradient well; "B" designates background well; the remainder are downgradient.

	Sampling Rationale
On-Site Groundwater	DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F. The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determination of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs. The groundwater monitoring program is covered in the "Sampling and Analysis Plan (SAP) Groundwater Monitoring Network," Draft W, October 1990, in the Annual Site Groundwater Protection Management Program Plan, WVDP-091, and in the 1991 RFI Work Plan.
SSWMU #11	State-licensed disposal area (SDA) operated by NFS as a commercial low-level disposal facility; also received wastes from NFS reprocessing operations.
Fuel Storage Area	Monitors groundwater in the vicinity of underground fuel storage tanks; this is not included in any of the SSWMUs.

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OFF-SITE SURFACE WATER

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WFBCTCB Buttermilk Creek, Upstream of Cattaraugus Creek Confluence at Thomas Corners Road	Restricted surface waters receiving plant effluents Reported in: • Annual Environmental Monitoring 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 and Sr-90
WFFELBR Cattaraugus Creek at Felton Bridge	Unrestricted surface waters receiving plant effluents Reported in: • Monthly Environmental Monitoring Trend Analysis • Annual Environmental Monitoring 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
WFBCBKG Buttermilk Creek near Fox Valley	Unrestricted surface water background Reported in: • Monthly Environmental Monitoring Trend Analysis • Annual Environmental Monitoring 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, Am-241
		Grab liquid	→ Semiannually	→ 2	→ TOC, TOX, Ca, Mg, Na, K, Ba, Mn, Fe, Cl, SO_4, NO_3, F, HCO_3, CO_3
WFBIGBR Cattaraugus Creek at Bigelow Bridge	Unrestricted surface water background	Grab liquid	→ Monthly	→ 12	→ Gross alpha/beta, H-3, Sr-90, and gamma isotopic

*Monthly composite is composited quarterly for NYSDOH.

	Sampling Rationale
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. Since 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 comparison to downstream conditions.

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OFF-SITE DRINKING WATER

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

	Sampling Rationale
Off-Site Drinking Water WFWEL 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 (WFWEL10) is from a public water supply from deep wells. The tenth drinking water well, WFWEL06, is located 29 km south of the Project and is considered a background drinking water source.