TEXAS Health and Human Services | Texas Department of State Health Services

Radiation Inspection Branch Environmental Monitoring Summary for 2023

NOTE: Items within these environmental summaries have been removed due to confidential homeland security information under The Texas Public Information Act and House Bill 9, Gov. § code 418.

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Introduction

The document consists of the date collected for each monitoring point at each facility. The data is presented in the same manner as in the past. Limits of detection were not included with the data in an effort to reduce the space required for data entry. A listing of expected limits of detection for various media, geometries, and radionuclides is found in the appendices. Maps of the facilities are included, but some details have been omitted. Specific information about individual facilities can be found in the license files. Redacted copies of this and previous annual reports can be found at: https://www.dshs.state.tx.us/radiation/ram/environmental-monitoring.aspx

All analyses of environmental media, i.e., soil, air, water, vegetation, and sewage are performed by the Texas Department of State Health Services (DSHS), Laboratory Services Section. The Laboratory Services Section operates a highly capable radio-chemistry program. Currently, the Environmental Sciences Branch participates in a program sponsored by the United States Department of Energy (USDOE), referred to as Department of Energy Laboratory Accreditation Program. It was developed by the USDOE in order to provide quality assurance and control for USDOE contractors. The most recent results of the Laboratory Services Section's performance in these "cross checks" can be found in the appendices to this document.

Landauer, Inc. performs Optically Stimulated Luminescence (OSL) readings for the facilities that have neutron sources. Approximately 200 OSLs are exchanged and read each calendar quarter. Background is subtracted from all station readings except for Comanche Peak Nuclear Power Plant, South Texas Project, and Pantex. Background is not subtracted from these three locations because the readings identify ambient doses.

Analysis of sample data from the monitored facilities indicated no release of radioactive material to the environment that exceeded the regulatory or license limits of the DSHS or any other agency such as the United States Nuclear Regulatory Commission or the USDOE. Some of the OSL readings at a few of the monitored facilities exceeded to 100mrem for the year. All licensed facilities are required by rule to document that exposures from conducting operations do not cause doses in excess of the regulatory limits to employees or individual members of the general public. The documentation is maintained for inspection by the Radiation Branch. Licensees are allowed to use mitigating factors, such as occupancy times and distance to the nearest occupied areas, in demonstrating compliance with those limits. Taking into account occupancy factors, all facilities monitored during the 2023 calendar year were found to be in compliance with radiation dose limits. Any questions should be directed to Robert E. Free at 737-218-7082 or Robert.free@dshs.texas.gov

Robert Free
Digitally signed by Robert Free
Date: 2025.02.18 14:03:58 -06'00'

Robert E. Free

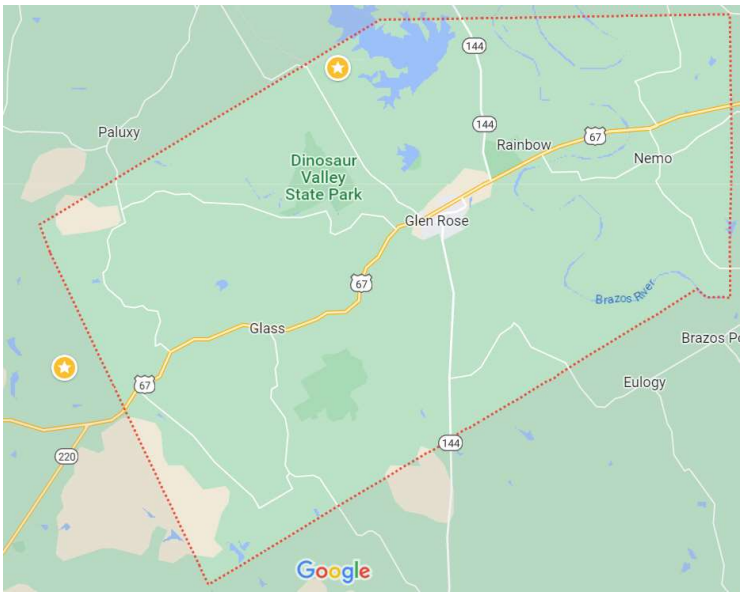
Fixed Nuclear Facilities

Comanche Peak Nuclear Power Plant
Radiation Branch Site No. 031

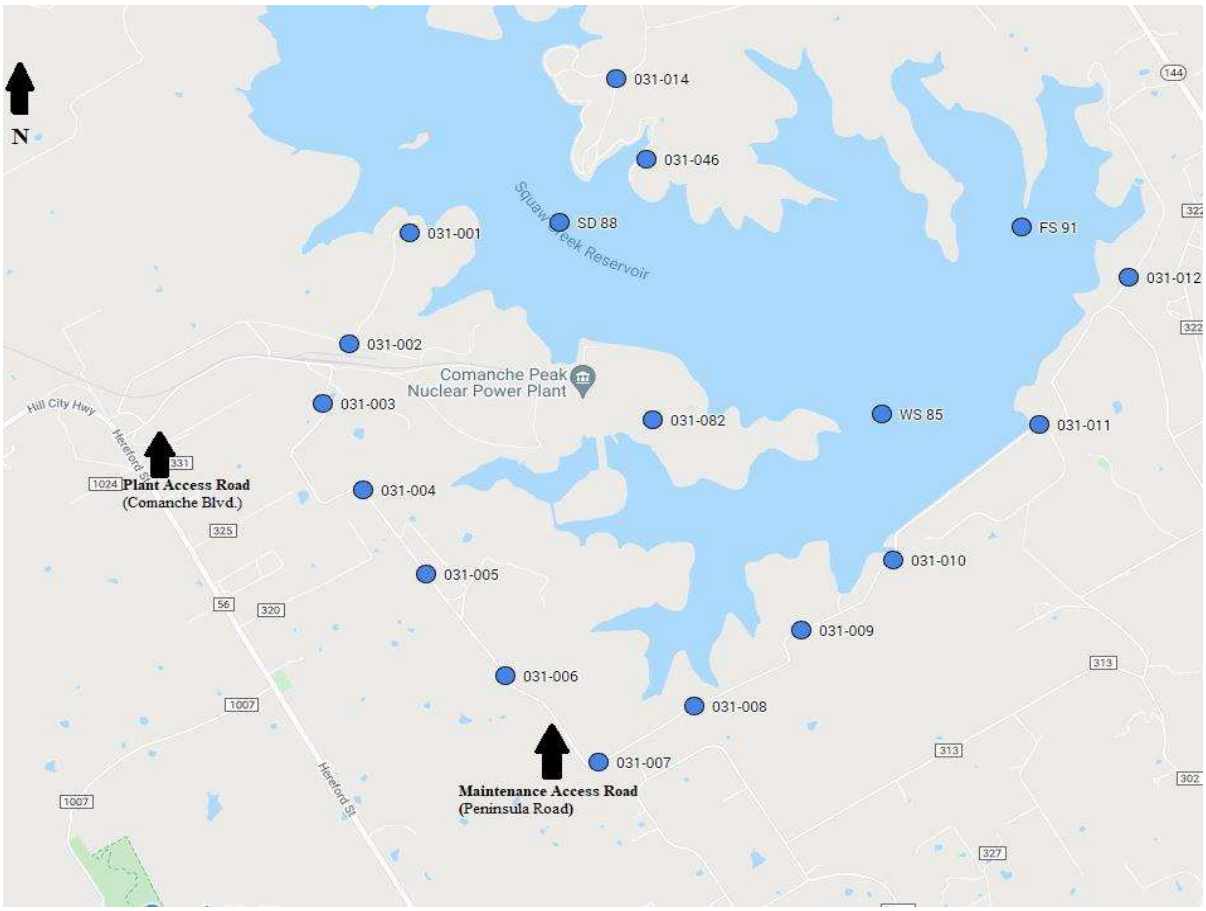
Comanche Peak Nuclear Power Plant (CPNPP) is a two-unit nuclear-fueled power plant owned and operated by Luminant Power, a subsidiary of Vistra Corp. The plant is located in Somervell County four and one-half miles northwest of Glen Rose and approximately 80 miles southwest of downtown Dallas.

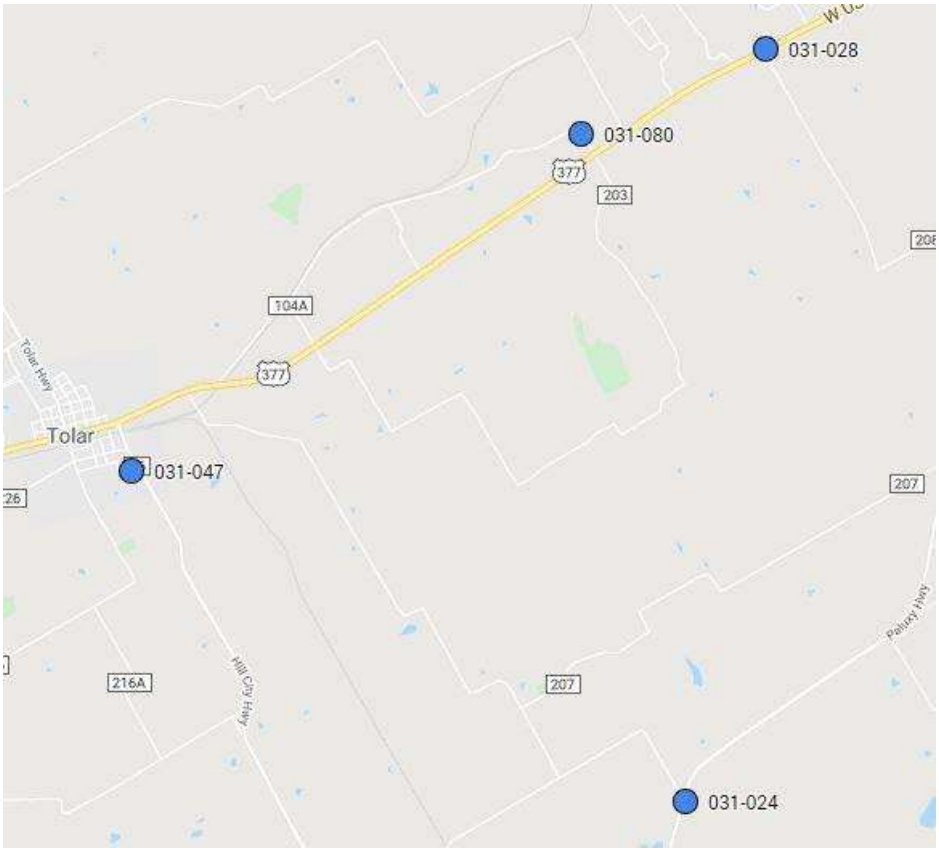
CPNPP, Luminant Power's sole nuclear power plant, with an operating capacity of 2,500 megawatts [two Westinghouse 1,250 megawatt (electric) pressurized water reactor units], began operation in 1990, although fuel had been received on-site in 1982-1983. The plant has approximately 1,300 employees. The Radiation Branch Surveillance Program consists of OSL monitoring and sampling air, fish, food products, sediment, vegetation, and water.

Shaded area indicates location of Somervell County



Comanche Peak Nuclear Power Plant
Monitoring Station Locations





Comanche Peak Nuclear Power Plant
Monitoring Station Locations

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Optically Stimulated Luminescent Dosimeter (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	24	28	32	27	111	
2	25	27	32	30	114	
3	24	24	30	29	107	
4	26	29	31	32	118	
5	24	26	31	29	110	
6	25	28	30	30	113	
7	24	25	29	28	106	
8	24	27	32	30	113	
9	26	28	31	31	116	
10	24	28	31	30	113	
11	23	25	28	28	104	
12	27	31	33	31	122	
14	24	27	28	31	110	
24	25	27	30	30	112	
28	26	28	30	28	112	
30	26	29	32	31	118	
39	24	28	32	28	112	
46	26	29	31	31	117	
47	24	27	30	28	109	
49	24	27	32	30	113	
60	24	28	29	29	110	
61	23	26	29	27	105	
62	24	27	30	30	111	
63	27	29	33	32	121	
64	24	27	32	29	112	
65	23	25	29	29	106	
66	24	22	30	29	105	
67	24	25	30	28	107	
68	24	27	0	30	81	QTR 3 OSL Not Found
69	23	23	29	28	103	
70	23	26	32	29	110	
71	25	27	31	30	113	
72	24	28	33	29	114	
73	24	29	31	31	115	
74	26	27	31	28	112	
75	24	26	31	29	110	
76	25	28	29	31	113	
77	23	24	29	28	104	
78	24	26	30	29	109	
79	23	27	32	30	112	
80	24	27	31	30	112	
81	25	0	31	31	87	QTR 3 OSL Not Found
82	24	26	32	30	112	

NOTE: [1]*Background is not subtracted from the data*
[2]*An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.*

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Sample					
2/21/2023	AG23549	001	Ba-140	<9.1e-6	µCi/mL
			Be-7	1.70e-4	µCi/mL
			Co-58	<2.5e-6	µCi/mL
			Co-60	<2.7e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<5.1e-6	µCi/mL
			I-131	<2.7e-6	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.6e-6	µCi/mL
			Zn-65	<6.1e-6	µCi/mL
			Zr-95	<4.7e-6	µCi/mL
5/4/2023	AG35956	001	Ba-140	<7.8e-6	µCi/mL
			Be-7	2.33e-4	µCi/mL
			Co-58	<2.5e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.9e-6	µCi/mL
			Fe-59	<5.3e-6	µCi/mL
			I-131	<2.6e-6	µCi/mL
			K-40	1.71e-4	µCi/mL
			La-140	<3.1e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<6.2e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL
7/14/2023	AG47703	001	Ba-140	<8.7e-6	µCi/mL
			Be-7	3.22e-4	µCi/mL
			Co-58	<2.4e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.2e-6	µCi/mL
			Cs-137	<2.9e-6	µCi/mL
			Fe-59	<4.5e-6	µCi/mL
			I-131	<2.6e-6	µCi/mL
			K-40	1.50e-4	µCi/mL
			La-140	<2.9e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	2.6e-6	µCi/mL
			Zn-65	<5.6e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
11/15/2023	AG59244	001	Ba-140	<8.8e-6	µCi/mL
			Be-7	1.48e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<4.8e-6	µCi/mL
			I-131	<2.8e-6	µCi/mL
			La-140	<3.2e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<6.0e-6	µCi/mL
			Zr-95	<4.5e-6	µCi/mL
11/15/2023	AG59245	001	Ba-140	<9.2e-6	µCi/mL
			Be-7	1.82e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.7e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<5.3e-6	µCi/mL
			I-131	<2.8e-6	µCi/mL
			La-140	<3.1e-6	µCi/mL
			Mn-54	<2.6e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<6.0e-6	µCi/mL
			Zr-95	<4.7e-6	µCi/mL
5/4/2023	AG35957	057	Ba-140	<8.2e-6	µCi/mL
			Be-7	2.70e-4	µCi/mL
			Co-58	<2.4e-6	µCi/mL
			Co-60	<3.1e-6	µCi/mL
			Cs-134	<2.3e-6	µCi/mL
			Cs-137	<3.1e-6	µCi/mL
			Fe-59	<4.9e-6	µCi/mL
			I-131	<2.5e-6	µCi/mL
			K-40	5.3e-5	µCi/mL
			La-140	<3.0e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.5e-6	µCi/mL
			Zn-65	<6.6e-6	µCi/mL
			Zr-95	<4.7e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
7/14/2023	AG47704	057	Ba-140	<8.5e-6	µCi/mL
			Be-7	2.73e-4	µCi/mL
			Co-58	<2.7e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.3e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<4.4e-6	µCi/mL
			I-131	<2.6e-6	µCi/mL
			K-40	1.44e-4	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<5.9e-6	µCi/mL
			Zr-95	<4.1e-6	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
1/4/2023	AG23218	001	I-131	<4.9e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
1/10/2023	AG23890	001	I-131	<5.1e-15	µCi/mL
			K-40	2.35e-13	µCi/mL
1/17/2023	AG24537	001	I-131	<4.9e-15	µCi/mL
			K-40	2.06e-13	µCi/mL
1/24/2023	AG26351	001	I-131	<5.7e-15	µCi/mL
			K-40	2.13e-13	µCi/mL
1/30/2023	AG27285	001	I-131	<7.1e-15	µCi/mL
			K-40	2.64e-13	µCi/mL
2/7/2023	AG27828	001	I-131	<4.7e-15	µCi/mL
			K-40	2.12e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
2/14/2023	AG29155	001	I-131	<5.0e-15	µCi/mL
			K-40	1.86e-13	µCi/mL
2/21/2023	AG29818	001	I-131	<5.1e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
2/28/2023	AG31201	001	I-131	<5.2e-15	µCi/mL
			K-40	2.25e-13	µCi/mL
3/7/2023	AG32273	001	I-131	<5.3e-15	µCi/mL
			K-40	2.22e-13	µCi/mL
3/14/2023	AG33059	001	I-131	<5.2e-15	µCi/mL
			K-40	2.37e-13	µCi/mL
3/21/2023	AG33856	001	I-131	<5.2e-15	µCi/mL
			K-40	3.01e-13	µCi/mL
3/28/2023	AG34549	001	I-131	<5.0e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
4/4/2023	AG35478	001	I-131	<5.1e-15	µCi/mL
			K-40	2.21e-13	µCi/mL
4/11/2023	AG36374	001	I-131	<5.3e-15	µCi/mL
			K-40	2.42e-13	µCi/mL
4/18/2023	AG37223	001	I-131	<2.3e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
4/25/2023	AG38085	001	I-131	<5.3e-15	µCi/mL
			K-40	4.45e-13	µCi/mL
5/2/2023	AG39014	001	I-131	<5.2e-15	µCi/mL
			K-40	3.99e-13	µCi/mL
5/9/2023	AG40118	001	I-131	<5.3e-15	µCi/mL
			K-40	1.72e-13	µCi/mL
5/16/2023	AG40929	001	I-131	<5.5e-15	µCi/mL
			K-40	2.57e-13	µCi/mL
5/23/2023	AG42001	001	I-131	<6.7e-15	µCi/mL
			K-40	2.27e-13	µCi/mL
6/30/2023	AG42384	001	I-131	<6.0e-15	µCi/mL
			K-40	2.34e-13	µCi/mL
6/6/2023	AG43367	001	I-131	<4.5e-15	µCi/mL
			K-40	1.70e-13	µCi/mL
6/13/2023	AG44625	001	I-131	<7.9e-15	µCi/mL
			K-40	2.93e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
7/3/2023	AG47170	001	I-131	<8.2e-15	µCi/mL
			K-40	3.06e-13	µCi/mL
7/11/2023	AG48153	001	I-131	<4.5e-15	µCi/mL
			K-40	3.58e-13	µCi/mL
7/18/2023	AG49175	001	I-131	<5.3e-15	µCi/mL
			K-40	4.34e-13	µCi/mL
7/25/2023	AG50268	001	I-131	<5.1e-15	µCi/mL
			K-40	4.09e-13	µCi/mL
8/1/2023	AG50962	001	I-131	<5.1e-15	µCi/mL
			K-40	2.56e-13	µCi/mL
8/8/2023	AG51861	001	I-131	<5.0e-15	µCi/mL
			K-40	2.25e-13	µCi/mL
8/15/2023	AG52919	001	I-131	<5.1e-15	µCi/mL
			K-40	2.45e-13	µCi/mL
8/22/2023	AG53578	001	I-131	<5.5e-15	µCi/mL
			K-40	2.61e-13	µCi/mL
8/29/2023	AG54609	001	I-131	<5.3e-15	µCi/mL
			K-40	1.87e-13	µCi/mL
9/5/2023	AG55190	001	I-131	<5.1e-15	µCi/mL
			K-40	1.93e-13	µCi/mL
9/12/2023	AG56113	001	I-131	<5.8e-15	µCi/mL
			K-40	2.51e-13	µCi/mL
9/19/2023	AG57330	001	I-131	<5.8e-15	µCi/mL
			K-40	2.20e-13	µCi/mL
9/26/2023	AG57852	001	I-131	<5.4e-15	µCi/mL
			K-40	1.99e-13	µCi/mL
10/3/2023	AG58300	001	I-131	<5.3e-15	µCi/mL
			K-40	2.12e-13	µCi/mL
10/10/2023	AG59249	001	I-131	<2.1e-15	µCi/mL
			K-40	2.93e-13	µCi/mL
10/17/2023	AG60146	001	I-131	<5.3e-15	µCi/mL
			K-40	2.05e-13	µCi/mL
10/24/2023	AG60934	001	I-131	<5.5e-15	µCi/mL
			K-40	2.57e-13	µCi/mL
10/31/2023	AG61805	001	I-131	<5.1e-15	µCi/mL
			K-40	2.50e-13	µCi/mL
11/7/2023	AG62937	001	I-131	<5.4e-15	µCi/mL
			K-40	2.95e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
11/14/2023	AG63619	001	I-131	<5.3e-15	µCi/mL
			K-40	2.02e-13	µCi/mL
11/21/2023	AG64303	001	I-131	<6.8e-15	µCi/mL
			K-40	2.27e-13	µCi/mL
11/28/2023	AG64886	001	I-131	<5.2e-15	µCi/mL
			K-40	2.29e-13	µCi/mL
12/5/2023	AG65809	001	I-131	<5.3e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
12/12/2023	AG66582	001	I-131	<2.3e-15	µCi/mL
			K-40	2.83e-13	µCi/mL
12/19/2023	AG67093	001	I-131	<5.2e-15	µCi/mL
			K-40	2.76e-13	µCi/mL
12/27/2023	AG67358	001	I-131	<4.4e-15	µCi/mL
			K-40	1.94e-13	µCi/mL
1/4/2023	AG23220	057	I-131	<5.2e-15	µCi/mL
			K-40	2.16e-13	µCi/mL
1/10/2023	AG23892	057	I-131	<5.2e-15	µCi/mL
			K-40	2.60e-13	µCi/mL
1/17/2023	AG24539	057	I-131	<4.9e-15	µCi/mL
			K-40	2.86e-13	µCi/mL
1/24/2023	AG26353	057	I-131	<5.8e-15	µCi/mL
			K-40	2.91e-13	µCi/mL
1/30/2023	AG27287	057	I-131	<7.7e-15	µCi/mL
			K-40	2.95e-13	µCi/mL
2/7/2023	AG27830	057	I-131	<4.8e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
2/14/2023	AG29157	057	I-131	<5.2e-15	µCi/mL
			K-40	2.41e-13	µCi/mL
2/21/2023	AG29820	057	I-131	<5.2e-15	µCi/mL
			K-40	2.36e-13	µCi/mL
2/28/2023	AG31203	057	I-131	<5.6e-15	µCi/mL
			K-40	2.60e-13	µCi/mL
3/7/2023	AG32275	057	I-131	<5.3e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
3/14/2023	AG33061	057	I-131	<5.5e-15	µCi/mL
			K-40	2.25e-13	µCi/mL
3/21/2023	AG33858	057	I-131	<5.5e-15	µCi/mL
			K-40	2.22e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
3/28/2023	AG34551	057	I-131	<5.1e-15	µCi/mL
			K-40	2.54e-13	µCi/mL
4/4/2023	AG35480	057	I-131	<5.4e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
4/11/2023	AG36376	057	I-131	<5.3e-15	µCi/mL
			K-40	2.39e-13	µCi/mL
4/18/2023	AG37225	057	I-131	<5.3e-15	µCi/mL
			K-40	4.09e-13	µCi/mL
4/25/2023	AG38087	057	I-131	<5.3e-15	µCi/mL
			K-40	4.18e-13	µCi/mL
5/2/2023	AG39016	057	I-131	<5.3e-15	µCi/mL
			K-40	3.57e-13	µCi/mL
5/9/2023	AG40120	057	I-131	<5.4e-15	µCi/mL
			K-40	2.12e-13	µCi/mL
5/16/2023	AG40931	057	I-131	<5.4e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
5/23/2023	AG42003	057	I-131	<7.0e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
5/30/2023	AG42386	057	I-131	<6.0e-15	µCi/mL
			K-40	2.54e-13	µCi/mL
6/6/2023	AG43369	057	I-131	<2.3e-15	µCi/mL
			K-40	2.64e-13	µCi/mL
6/13/2023	AG44627	057	I-131	<6.5e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
6/20/2023	AG45711	057	I-131	<6.0e-15	µCi/mL
			K-40	2.29e-13	µCi/mL
6/27/2023	AG46340	057	I-131	<2.2e-15	µCi/mL
			K-40	2.74e-13	µCi/mL
7/3/2023	AG47172	057	I-131	<2.9e-15	µCi/mL
			K-40	3.27e-13	µCi/mL
7/11/2023	AG48155	057	I-131	<4.9e-15	µCi/mL
			K-40	3.84e-13	µCi/mL
7/18/2023	AG49177	057	I-131	<5.0e-15	µCi/mL
			K-40	4.16e-13	µCi/mL
7/25/2023	AG50270	057	I-131	<5.3e-15	µCi/mL
			K-40	4.12e-13	µCi/mL
8/1/2023	AG50964	057	I-131	<5.3e-15	µCi/mL
			K-40	3.05e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
8/8/2023	AG51863	057	I-131	<5.4e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
8/15/2023	AG52920	057	I-131	<5.5e-15	µCi/mL
			K-40	2.30e-13	µCi/mL
8/22/2023	AG53576	057	I-131	<5.4e-15	µCi/mL
			K-40	2.32e-13	µCi/mL
8/29/2023	AG54611	057	I-131	<5.6e-15	µCi/mL
			K-40	2.41e-13	µCi/mL
9/5/2023	AG55192	057	I-131	<5.4e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
9/12/2023	AG56115	057	I-131	<6.0e-15	µCi/mL
			K-40	2.80e-13	µCi/mL
9/19/2023	AG57332	057	I-131	<6.0e-15	µCi/mL
			K-40	1.75e-13	µCi/mL
9/26/2023	AG57854	057	I-131	<5.2e-15	µCi/mL
			K-40	2.61e-13	µCi/mL
10/3/2023	AG58302	057	I-131	<5.4e-15	µCi/mL
			K-40	1.74e-13	µCi/mL
10/10/2023	AG59251	057	I-131	<4.9e-15	µCi/mL
			K-40	2.14e-13	µCi/mL
10/17/2023	AG60148	057	I-131	<5.7e-15	µCi/mL
			K-40	2.57e-13	µCi/mL
10/24/2023	AG60936	057	I-131	<5.3e-15	µCi/mL
			K-40	2.60e-13	µCi/mL
10/31/2023	AG61807	057	I-131	<5.2e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
11/7/2023	AG62939	057	I-131	<5.4e-15	µCi/mL
			K-40	2.53e-13	µCi/mL
11/14/2023	AG63621	057	I-131	<5.3e-15	µCi/mL
			K-40	2.75e-13	µCi/mL
11/21/2023	AG64305	057	I-131	<7.5e-15	µCi/mL
			K-40	3.01e-13	µCi/mL
11/28/2023	AG64888	057	I-131	<5.4e-15	µCi/mL
			K-40	2.43e-13	µCi/mL
12/5/2023	AG65811	057	I-131	<5.7e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
12/12/2023	AG66580	057	I-131	<5.6e-15	µCi/mL
			K-40	2.42e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
12/19/2023	AG67095	057	I-131	<5.4e-15	µCi/mL
			K-40	2.71e-13	µCi/mL
12/27/2023	AG67360	057	I-131	<4.6e-15	µCi/mL
			K-40	2.34e-13	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
1/3/2023	AG23217	001	Gross Beta	2.90e-14	µCi/mL
1/10/2023	AG23889	001	Gross Beta	3.16e-14	µCi/mL
1/17/2023	AG24536	001	Gross Beta	2.15e-14	µCi/mL
1/24/2023	AG26350	001	Gross Beta	2.22e-14	µCi/mL
1/30/2023	AG27284	001	Gross Beta	2.11e-14	µCi/mL
2/7/2023	AG27827	001	Gross Beta	2.90e-14	µCi/mL
2/14/2023	AG29154	001	Gross Beta	1.91e-14	µCi/mL
2/21/2023	AG29817	001	Gross Beta	1.95e-14	µCi/mL
2/28/2023	AG31200	001	Gross Beta	2.29e-14	µCi/mL
3/7/2023	AG32272	001	Gross Beta	2.17e-14	µCi/mL
3/14/2023	AG33058	001	Gross Beta	2.61e-14	µCi/mL
3/21/2023	AG33855	001	Gross Beta	2.59e-14	µCi/mL
3/28/2023	AG34548	001	Gross Beta	2.30e-14	µCi/mL
4/4/2023	AG35477	001	Gross Beta	2.59e-14	µCi/mL
4/18/2023	AG37222	001	Gross Beta	2.21e-14	µCi/mL
4/25/2023	AG38084	001	Gross Beta	2.44e-14	µCi/mL
5/2/2023	AG39013	001	Gross Beta	1.96e-14	µCi/mL
5/9/2023	AG40117	001	Gross Beta	2.59e-14	µCi/mL
5/16/2023	AG40928	001	Gross Beta	1.93e-14	µCi/mL
5/23/2023	AG42000	001	Gross Beta	2.37e-14	µCi/mL
5/30/2023	AG42383	001	Gross Beta	3.07e-14	µCi/mL
6/6/2023	AG43366	001	Gross Beta	2.66e-14	µCi/mL
6/13/2023	AG44624	001	Gross Beta	2.91e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
7/3/2023	AG47169	001	Gross Beta	2.29e-14	µCi/mL
7/11/2023	AG48152	001	Gross Beta	1.74e-14	µCi/mL
7/18/2023	AG49174	001	Gross Beta	2.63e-14	µCi/mL
7/25/2023	AG50267	001	Gross Beta	2.96e-14	µCi/mL
8/1/2023	AG50961	001	Gross Beta	3.24e-14	µCi/mL
8/8/2023	AG51860	001	Gross Beta	1.54e-14	µCi/mL
8/15/2023	AG53230	001	Gross Beta	1.23e-14	µCi/mL
8/22/2023	AG53577	001	Gross Beta	1.89e-14	µCi/mL
8/29/2023	AG54608	001	Gross Beta	1.86e-14	µCi/mL
9/5/2023	AG55189	001	Gross Beta	2.52e-14	µCi/mL
9/12/2023	AG56112	001	Gross Beta	1.49e-14	µCi/mL
9/19/2023	AG57329	001	Gross Beta	1.97e-14	µCi/mL
9/26/2023	AG57851	001	Gross Beta	1.70e-14	µCi/mL
10/3/2023	AG58299	001	Gross Beta	4.00e-14	µCi/mL
10/10/2023	AG59248	001	Gross Beta	1.49e-14	µCi/mL
10/17/2023	AG60145	001	Gross Beta	1.120e-14	µCi/mL
10/24/2023	AG60933	001	Gross Beta	1.63e-14	µCi/mL
10/31/2023	AG61804	001	Gross Beta	1.32e-14	µCi/mL
11/7/2023	AG62936	001	Gross Beta	1.69e-14	µCi/mL
11/7/2023	AG63618	001	Gross Beta	1.68e-14	µCi/mL
11/21/2023	AG64302	001	Gross Beta	1.99e-14	µCi/mL
11/28/2023	AG64885	001	Gross Beta	1.59e-14	µCi/mL
12/5/2023	AG65808	001	Gross Beta	1.69e-14	µCi/mL
12/12/2023	AG66581	001	Gross Beta	1.18e-14	µCi/mL
12/19/2023	AG67092	001	Gross Beta	1.71e-14	µCi/mL
12/27/2023	AG67357	001	Gross Beta	1.230e-14	µCi/mL
1/4/2023	AG23219	057	Gross Beta	2.87e-14	µCi/mL
1/10/2023	AG23891	057	Gross Beta	3.47e-14	µCi/mL
1/17/2023	AG24538	057	Gross Beta	2.68e-14	µCi/mL
1/24/2023	AG26352	057	Gross Beta	2.44e-14	µCi/mL
1/30/2023	AG27286	057	Gross Beta	2.41e-14	µCi/mL
2/7/2023	AG27829	057	Gross Beta	3.15e-14	µCi/mL
2/14/2023	AG29156	057	Gross Beta	2.23e-14	µCi/mL
2/21/2023	AG29819	057	Gross Beta	2.12e-14	µCi/mL
2/28/2023	AG31202	057	Gross Beta	2.41e-14	µCi/mL
3/7/2023	AG32274	057	Gross Beta	2.66e-14	µCi/mL
3/14/2023	AG33060	057	Gross Beta	1.49e-14	µCi/mL
3/21/2023	AG33857	057	Gross Beta	2.55e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
3/28/2023	AG34550	057	Gross Beta	2.00e-14	µCi/mL
4/4/2023	AG35479	057	Gross Beta	2.48e-14	µCi/mL
4/11/2023	AG36375	057	Gross Beta	2.01e-14	µCi/mL
4/18/2023	AG37224	057	Gross Beta	2.08e-14	µCi/mL
4/25/2023	AG38086	057	Gross Beta	2.19e-14	µCi/mL
5/2/2023	AG39015	057	Gross Beta	1.76e-14	µCi/mL
5/9/2023	AG40119	057	Gross Beta	2.23e-14	µCi/mL
5/16/2023	AG40930	057	Gross Beta	1.37e-14	µCi/mL
5/23/2023	AG42002	057	Gross Beta	1.56e-14	µCi/mL
5/30/2023	AG42385	057	Gross Beta	2.01e-14	µCi/mL
6/6/2023	AG43368	057	Gross Beta	1.72e-14	µCi/mL
6/13/2023	AG44626	057	Gross Beta	1.92e-14	µCi/mL
6/20/2023	AG45710	057	Gross Beta	2.01e-14	µCi/mL
6/27/2023	AG46339	057	Gross Beta	1.42e-14	µCi/mL
7/3/2023	AG47171	057	Gross Beta	1.62e-14	µCi/mL
7/11/2023	AG48154	057	Gross Beta	1.060e-14	µCi/mL
7/18/2023	AG49176	057	Gross Beta	1.70e-14	µCi/mL
7/25/2023	AG50269	057	Gross Beta	1.79e-14	µCi/mL
8/1/2023	AG50963	057	Gross Beta	2.50e-14	µCi/mL
8/8/2023	AG51862	057	Gross Beta	1.96e-14	µCi/mL
8/15/2023	AG53231	057	Gross Beta	1.64e-14	µCi/mL
8/22/2023	AG53575	057	Gross Beta	2.71e-14	µCi/mL
8/29/2023	AG54610	057	Gross Beta	2.80e-14	µCi/mL
9/5/2023	AG55191	057	Gross Beta	3.80e-14	µCi/mL
9/12/2023	AG56114	057	Gross Beta	2.26e-14	µCi/mL
9/19/2023	AG57331	057	Gross Beta	3.08e-14	µCi/mL
9/26/2023	AG57853	057	Gross Beta	2.43e-14	µCi/mL
10/3/2023	AG58301	057	Gross Beta	3.06e-14	µCi/mL
10/10/2023	AG59250	057	Gross Beta	2.17e-14	µCi/mL
10/17/2023	AG60147	057	Gross Beta	1.70e-14	µCi/mL
10/24/2023	AG60935	057	Gross Beta	2.45e-14	µCi/mL
10/31/2023	AG61806	057	Gross Beta	1.76e-14	µCi/mL
11/7/2023	AG62938	057	Gross Beta	2.61e-14	µCi/mL
11/14/2023	AG63620	057	Gross Beta	2.83e-14	µCi/mL
11/21/2023	AG64304	057	Gross Beta	3.28e-14	µCi/mL
11/28/2023	AG64887	057	Gross Beta	2.59e-14	µCi/mL
12/5/2023	AG65810	057	Gross Beta	3.00e-14	µCi/mL
12/12/2023	AG66579	057	Gross Beta	1.88e-14	µCi/mL
12/19/2023	AG67094	057	Gross Beta	2.79e-14	µCi/mL
12/27/2023	AG67359	057	Gross Beta	1.96e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
11/14/2023	AG63760	093	Ba-140	<3.8e-8	µCi/g
			Co-58	<8.8e-9	µCi/g
			Co-60	<9.5e-9	µCi/g
			Cs-134	<9.0e-9	µCi/g
			Cs-137	<8.7e-9	µCi/g
			Fe-59	<2.0e-8	µCi/g
			I-131	<1.3e-8	µCi/g
			K-40	3.66e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<8.3e-9	µCi/g
			Nb-95	<9.2e-9	µCi/g
			Pb-212	1.48e-8	µCi/g
			Pb-214	3.10e-8	µCi/g
			Tl-208	1.01e-8	µCi/g
			Zn-65	<2.3e-8	µCi/g
			Zr-95	<1.5e-8	µCi/g
5/23/2023	AG42004	094	Ba-140	<2.4e-8	µCi/g
			Co-58	<5.0e-9	µCi/g
			Co-60	<5.6e-9	µCi/g
			Cs-134	<4.4e-9	µCi/g
			Cs-137	<5.7e-9	µCi/g
			Fe-59	<1.2e-8	µCi/g
			I-131	<9.1e-9	µCi/g
			K-40	2.18e-6	µCi/g
			La-140	<7.5e-9	µCi/g
			Mn-54	<5.2e-9	µCi/g
			Nb-95	<5.7e-9	µCi/g
			Zn-65	<1.2e-8	µCi/g
			Zr-95	<9.3e-9	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
6/6/2023	AG43370	091	Ba-140	<4.5e-8	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.5e-8	µCi/g
			Cs-134	<1.2e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<2.7e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	2.95e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Zn-65	<3.0e-8	µCi/g
			Zr-95	<2.2e-8	µCi/g
12/19/2023	AG67096	091	Ba-140	<5.4e-8	µCi/g
			Bi-214	2.8e-8	µCi/g
			Co-58	<1.1e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<9.1e-9	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.2e-8	µCi/g
			I-131	<2.1e-8	µCi/g
			K-40	2.32e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<9.8e-9	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Zn-65	<2.1e-8	µCi/g
			Zr-95	<2.0e-8	µCi/g
12/19/2023	AG67097	091	Ba-140	<5.4e-8	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<1.2e-8	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.7e-8	µCi/g
			I-131	<2.1e-8	µCi/g
			K-40	2.96e-6	µCi/g
			La-140	<1.7e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Zn-65	<2.8e-8	µCi/g
			Zr-95	<2.0e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
6/6/2023	AG43371	092	Ba-140	<4.3e-8	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.4e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	3.00e-6	µCi/g
			La-140	<1.4e-8	µCi/g
			Mn-54	<1.2e-8	µCi/g
			Nb-95	1.2e-8	µCi/g
			Zn-65	<2.8e-8	µCi/g
			Zr-95	<1.9e-8	µCi/g
12/19/2023	AG67098	092	Ba-140	3.3e-8	µCi/g
			Co-58	<6.6e-9	µCi/g
			Co-60	<7.4e-9	µCi/g
			Cs-134	<6.7e-9	µCi/g
			Cs-137	<6.8e-9	µCi/g
			Fe-59	<1.6e-8	µCi/g
			I-131	<1.3e-8	µCi/g
			K-40	3.01e-6	µCi/g
			La-140	<1.1e-8	µCi/g
			Mn-54	<6.3e-9	µCi/g
			Nb-95	<7.5e-9	µCi/g
			Zn-65	<1.7e-8	µCi/g
			Zr-95	<1.2e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
1/10/2023	AG23893	088	Ba-140	<8.6e-8	µCi/g
			Co-58	<2.4e-8	µCi/g
			Co-60	<2.3e-8	µCi/g
			Cs-134	<2.5e-8	µCi/g
			Cs-137	<2.4e-8	µCi/g
			Fe-59	<4.7e-8	µCi/g
			I-131	<2.4e-8	µCi/g
			K-40	1.91e-6	µCi/g
			La-140	<2.6e-8	µCi/g
			Mn-54	<2.6e-8	µCi/g
			Nb-95	<2.5e-8	µCi/g
			Pb-212	5.4e-8	µCi/g
			Zn-65	<5.9e-8	µCi/g
			Zr-95	<3.7e-8	µCi/g
7/11/2023	AG48156	088	Ba-140	<1.8e-7	µCi/g
			Co-58	<3.8e-8	µCi/g
			Co-60	<4.6e-8	µCi/g
			Cs-134	<5.2e-8	µCi/g
			Cs-137	<5.3e-8	µCi/g
			Fe-59	<8.8e-8	µCi/g
			I-131	<4.8e-8	µCi/g
			K-40	1.12e-5	µCi/g
			La-140	<5.1e-8	µCi/g
			Mn-54	<4.5e-8	µCi/g
			Nb-95	<4.8e-8	µCi/g
			Pb-212	8.03e-7	µCi/g
			Pb-214	5.05e-7	µCi/g
			Tl-208	2.14e-7	µCi/g
			Zn-65	<1.5e-7	µCi/g
			Zr-95	<7.3e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
1/30/2023	AG27290	014	Ba-140	<9.5e-8	µCi/g
			Be-7	5.97e-6	µCi/g
			Co-58	<1.9e-8	µCi/g
			Co-60	<2.0e-8	µCi/g
			Cs-134	<2.0e-8	µCi/g
			Cs-137	<1.9e-8	µCi/g
			Fe-59	<4.0e-8	µCi/g
			I-131	<3.7e-8	µCi/g
			K-40	1.43e-6	µCi/g
			La-140	<3.3e-8	µCi/g
			Mn-54	<1.9e-8	µCi/g
			Nb-95	<2.0e-8	µCi/g
			Zn-65	<4.1e-8	µCi/g
			Zr-95	<3.3e-8	µCi/g
3/28/2023	AG31204	014	Ba-140	<1.3e-7	µCi/g
			Be-7	9.52e-6	µCi/g
			Co-58	<3.1e-8	µCi/g
			Co-60	<3.5e-8	µCi/g
			Cs-134	<3.5e-8	µCi/g
			Cs-137	<3.3e-8	µCi/g
			Fe-59	<6.7e-8	µCi/g
			I-131	<4.2e-8	µCi/g
			K-40	3.54e-6	µCi/g
			La-140	<4.4e-8	µCi/g
			Mn-54	<3.2e-8	µCi/g
			Nb-95	<3.2e-8	µCi/g
			Zn-65	<7.4e-8	µCi/g
			Zr-95	<5.5e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
3/28/2023	AG34552	014	Ba-140	<5.4e-8	µCi/g
			Be-7	9.4e-7	µCi/g
			Co-58	<1.5e-8	µCi/g
			Co-60	<1.7e-8	µCi/g
			Cs-134	<1.4e-8	µCi/g
			Cs-137	<1.6e-8	µCi/g
			Fe-59	<3.3e-8	µCi/g
			I-131	<2.0e-8	µCi/g
			K-40	6.87e-6	µCi/g
			La-140	<1.7e-8	µCi/g
			Mn-54	<1.5e-8	µCi/g
			Nb-95	<1.6e-8	µCi/g
			Zn-65	<3.6e-8	µCi/g
			Zr-95	<2.6e-8	µCi/g
3/28/2023	AG34553	090	Ba-140	<5.2e-8	µCi/g
			Be-7	5.7e-7	µCi/g
			Co-58	<1.4e-8	µCi/g
			Co-60	<1.5e-8	µCi/g
			Cs-134	<1.2e-8	µCi/g
			Cs-137	<1.4e-8	µCi/g
			Fe-59	<2.7e-8	µCi/g
			I-131	<1.6e-8	µCi/g
			K-40	3.62e-6	µCi/g
			La-140	<1.6e-8	µCi/g
			Mn-54	<1.4e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Zn-65	<3.2e-8	µCi/g
			Zr-95	<2.3e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
4/25/2023	AG38090	014	Ba-140	<3.0e-8	µCi/g
			Be-7	2.95e-6	µCi/g
			Bi-214	5.8e-8	µCi/g
			Co-58	<7.8e-9	µCi/g
			Co-60	<8.4e-9	µCi/g
			Cs-134	<7.5e-9	µCi/g
			Cs-137	1.25e-8	µCi/g
			Fe-59	<1.7e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	4.29e-6	µCi/g
			La-140	<8.9e-9	µCi/g
			Mn-54	<8.1e-9	µCi/g
			Nb-95	<8.5e-9	µCi/g
			Pb-212	8.2e-8	µCi/g
			Pb-214	4.9e-8	µCi/g
			Tl-208	2.06e-8	µCi/g
			Zn-65	<2.1e-8	µCi/g
			Zr-95	<1.5e-8	µCi/g
5/30/2023	AG42389	014	Ba-140	<7.8e-8	µCi/g
			Be-7	1.60e-6	µCi/g
			Co-58	<1.9e-8	µCi/g
			Co-60	<2.0e-8	µCi/g
			Cs-134	<1.8e-8	µCi/g
			Cs-137	<2.1e-8	µCi/g
			Fe-59	<3.7e-8	µCi/g
			I-131	<2.7e-8	µCi/g
			K-40	4.76e-6	µCi/g
			La-140	<2.5e-8	µCi/g
			Mn-54	<1.9e-8	µCi/g
			Nb-95	<2.0e-8	µCi/g
			Zn-65	<4.3e-8	µCi/g
			Zr-95	<3.5e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
6/27/2023	AG46342	014	Ba-140	<7.8e-8	µCi/g
			Be-7	2.00e-6	µCi/g
			Co-58	<1.8e-8	µCi/g
			Co-60	<1.9e-8	µCi/g
			Cs-134	<1.7e-8	µCi/g
			Cs-137	<1.7e-8	µCi/g
			Fe-59	<4.6e-8	µCi/g
			I-131	<2.8e-8	µCi/g
			K-40	1.110e-5	µCi/g
			La-140	<2.4e-8	µCi/g
			Mn-54	<1.8e-8	µCi/g
			Nb-95	<2.0e-8	µCi/g
			Zn-65	<4.8e-8	µCi/g
			Zr-95	<3.2e-8	µCi/g
7/25/2023	AG50273	014	Ba-140	<2.1e-7	µCi/g
			Be-7	3.15e-6	µCi/g
			Co-58	<5.1e-8	µCi/g
			Co-60	<4.9e-8	µCi/g
			Cs-134	<4.7e-8	µCi/g
			Cs-137	<5.5e-8	µCi/g
			Fe-59	<9.9e-8	µCi/g
			I-131	<7.4e-8	µCi/g
			K-40	7.07e-6	µCi/g
			La-140	<6.7e-8	µCi/g
			Mn-54	<5.1e-8	µCi/g
			Nb-95	<5.6e-8	µCi/g
			Zn-65	<1.2e-7	µCi/g
			Zr-95	<9.1e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
8/29/2023	AG54612	014	Ba-140	<9.2e-8	µCi/g
			Be-7	2.39e-6	µCi/g
			Bi-214	1.84e-7	µCi/g
			Co-58	<2.3e-8	µCi/g
			Co-60	<2.5e-8	µCi/g
			Cs-134	<2.2e-8	µCi/g
			Cs-137	<2.6e-8	µCi/g
			Fe-59	<4.3e-8	µCi/g
			I-131	<3.1e-8	µCi/g
			K-40	5.64e-6	µCi/g
			La-140	<2.6e-8	µCi/g
			Mn-54	<2.4e-8	µCi/g
			Nb-95	<2.6e-8	µCi/g
			Pb-214	1.90e-7	µCi/g
			Tl-208	4.4e-8	µCi/g
			Zn-65	<5.2e-8	µCi/g
			Zr-95	<4.2e-8	µCi/g
9/26/2023	AG57855	014	Ba-140	<4.3e-8	µCi/g
			Be-7	2.00e-6	µCi/g
			Co-58	<1.1e-8	µCi/g
			Co-60	<9.7e-9	µCi/g
			Cs-134	<1.0e-8	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.1e-8	µCi/g
			I-131	<1.5e-8	µCi/g
			K-40	1.00e-6	µCi/g
			La-140	<1.4e-8	µCi/g
			Mn-54	<1.1e-8	µCi/g
			Nb-95	<1.2e-8	µCi/g
			Zn-65	<2.4e-8	µCi/g
			Zr-95	<1.9e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
10/31/2023	AG61808	014	Ba-140	<6.9e-8	µCi/g
			Be-7	4.34e-6	µCi/g
			Co-58	<1.7e-8	µCi/g
			Co-60	<1.8e-8	µCi/g
			Cs-134	<1.8e-8	µCi/g
			Cs-137	<1.9e-8	µCi/g
			Fe-59	<3.9e-8	µCi/g
			I-131	<2.1e-8	µCi/g
			K-40	5.00e-6	µCi/g
			La-140	<2.0e-8	µCi/g
			Mn-54	<1.8e-8	µCi/g
			Nb-95	<1.8e-8	µCi/g
			Zn-65	<4.5e-8	µCi/g
			Zr-95	<3.1e-8	µCi/g
11/28/2023	AG64889	014	Ba-140	<1.2e-7	µCi/g
			Be-7	1.01e-5	µCi/g
			Co-58	<2.5e-8	µCi/g
			Co-60	<2.5e-8	µCi/g
			Cs-134	<2.2e-8	µCi/g
			Cs-137	<2.8e-8	µCi/g
			Fe-59	<4.6e-8	µCi/g
			I-131	<4.8e-8	µCi/g
			K-40	1.49e-6	µCi/g
			La-140	<3.5e-8	µCi/g
			Mn-54	<2.5e-8	µCi/g
			Nb-95	<2.8e-8	µCi/g
			Zn-65	<5.2e-8	µCi/g
			Zr-95	<4.7e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
10/25/2022	AG18186	014	Ba-140	<9.5e-8	µCi/g
			Be-7	3.78e-6	µCi/g
			Co-58	<2.0e-8	µCi/g
			Co-60	<2.4e-8	µCi/g
			Cs-134	<2.1e-8	µCi/g
			Cs-137	<2.3e-8	µCi/g
			Fe-59	<4.4e-8	µCi/g
			I-131	<3.5e-8	µCi/g
			K-40	5.84e-6	µCi/g
			La-140	<2.8e-8	µCi/g
			Mn-54	<2.1e-8	µCi/g
			Nb-95	<2.2e-8	µCi/g
			Zn-65	<4.9e-8	µCi/g
			Zr-95	<3.5e-8	µCi/g
11/29/2022	AG20119	014	Ba-140	<8.6e-8	µCi/g
			Be-7	8.88e-6	µCi/g
			Co-58	<2.2e-8	µCi/g
			Co-60	<2.4e-8	µCi/g
			Cs-134	<2.5e-8	µCi/g
			Cs-137	<2.5e-8	µCi/g
			Fe-59	<4.6e-8	µCi/g
			I-131	<2.8e-8	µCi/g
			K-40	1.48e-6	µCi/g
			La-140	<2.6e-8	µCi/g
			Mn-54	<2.4e-8	µCi/g
			Nb-95	<2.4e-8	µCi/g
			Tl-208	4.7e-7	µCi/g
			Zn-65	<5.6e-8	µCi/g
			Zr-95	<4.1e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
12/27/2023	AG67363	014	Ba-140	<9.6e-8	µCi/g
			Be-7	5.13e-6	µCi/g
			Co-58	<2.3e-8	µCi/g
			Co-60	<2.4e-8	µCi/g
			Cs-134	<2.0e-8	µCi/g
			Cs-137	<2.1e-8	µCi/g
			Fe-59	<5.3e-8	µCi/g
			I-131	<3.5e-8	µCi/g
			K-40	8.87e-6	µCi/g
			La-140	<3.2e-8	µCi/g
			Mn-54	<2.2e-8	µCi/g
			Nb-95	<2.4e-8	µCi/g
			Zn-65	<5.3e-8	µCi/g
			Zr-95	<3.7e-8	µCi/g
6/27/2023	AG46341	090	Ba-140	<8.1e-8	µCi/g
			Be-7	4.28e-6	µCi/g
			Co-58	<1.8e-8	µCi/g
			Co-60	<1.8e-8	µCi/g
			Cs-134	<1.5e-8	µCi/g
			Cs-137	<1.8e-8	µCi/g
			Fe-59	<3.6e-8	µCi/g
			I-131	<3.0e-8	µCi/g
			K-40	9.01e-6	µCi/g
			La-140	<2.1e-8	µCi/g
			Mn-54	<1.7e-8	µCi/g
			Nb-95	<1.9e-8	µCi/g
			Zn-65	<4.0e-8	µCi/g
			Zr-95	<3.0e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
9/26/2023	AG57856	090	Ba-140	<4.9e-8	µCi/g
			Be-7	2.36e-6	µCi/g
			Co-58	<1.3e-8	µCi/g
			Co-60	<1.3e-8	µCi/g
			Cs-134	<1.3e-8	µCi/g
			Cs-137	<1.4e-8	µCi/g
			Fe-59	<2.5e-8	µCi/g
			I-131	<1.6e-8	µCi/g
			La-140	<1.4e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Pb-212	3.6e-8	µCi/g
			Zn-65	<3.1e-8	µCi/g
			Zr-95	<2.2e-8	µCi/g
12/27/2023	AG67364	090	Ba-140	<1.5e-7	µCi/g
			Be-7	1.30e-5	µCi/g
			Co-58	<2.9e-8	µCi/g
			Co-60	<3.0e-8	µCi/g
			Cs-134	<2.6e-8	µCi/g
			Cs-137	<3.3e-8	µCi/g
			Fe-59	<5.5e-8	µCi/g
			I-131	<5.8e-8	µCi/g
			K-40	7.4e-7	µCi/g
			La-140	<3.8e-8	µCi/g
			Mn-54	<2.8e-8	µCi/g
			Nb-95	<3.3e-8	µCi/g
			Zn-65	<5.8e-8	µCi/g
			Zr-95	<5.1e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/30/2023	AG27288	085	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.1e-9	µCi/mL
			Gross Beta	1.50e-8	µCi/mL
2/28/2023	AG31205	085	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	1.68e-8	µCi/mL
3/28/2023	AG34554	085	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	1.60e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/25/2023	AG38088	085	Ba-140	<6.6e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.7e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			K-40	2.2e-8	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	1.92e-8	µCi/mL
4/25/2023	AG40936	085	Ba-140	<2.4e-8	µCi/mL
			Co-58	<2.4e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<5.4e-9	µCi/mL
			I-131	<1.6e-8	µCi/mL
			La-140	<8.9e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<3.2e-9	µCi/mL
			Zn-65	<4.7e-9	µCi/mL
			Zr-95	<4.2e-9	µCi/mL
			Gross Beta	1.62e-8	µCi/mL
5/30/2023	AG42387	085	Ba-140	<7.7e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.2e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.5e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	1.61e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/27/2023	AG46343	085	Ba-140	<7.6e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<3.4e-9	µCi/mL
			I-131	<2.7e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.9e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	1.57e-8	µCi/mL
7/25/2023	AG50271	085	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.0e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<1.8e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.2e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	1.50e-8	µCi/mL
8/29/2023	AG54613	085	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.7e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	1.49e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
9/26/2023	AG57858	085	Ba-140	<7.6e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	2.18e-8	µCi/mL
10/31/2023	AG61809	085	Ba-140	<6.8e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.0e-9	µCi/mL
			I-131	<2.3e-9	µCi/mL
			La-140	<2.2e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.1e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	1.89e-8	µCi/mL
11/28/2023	AG64890	085	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<2.8e-9	µCi/mL
			I-131	<2.3e-9	µCi/mL
			La-140	<2.0e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.1e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	1.44e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/27/2023	AG67361	085	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<2.9e-9	µCi/mL
			I-131	<2.3e-9	µCi/mL
			La-140	<2.0e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.6e-9	µCi/mL
			Zn-65	<3.2e-9	µCi/mL
			Zr-95	<2.7e-9	µCi/mL
			Gross Beta	1.47e-8	µCi/mL
1/30/2023	AG27289	086	Ba-140	<8.8e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.2e-9	µCi/mL
			I-131	<3.0e-9	µCi/mL
			La-140	<2.9e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	8.5e-9	µCi/mL
2/28/2023	AG31206	086	Ba-140	<7.5e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.2e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.2e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.6e-9	µCi/mL
			Gross Beta	6.7e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
3/28/2023	AG34555	086	Ba-140	<6.3e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.3e-9	µCi/mL
			I-131	<2.1e-9	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.4e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	6.9e-9	µCi/mL
4/25/2023	AG38089	086	Ba-140	<7.5e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<4.2e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<3.0e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	8.9e-9	µCi/mL
5/30/2023	AG42388	086	Ba-140	<7.8e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<3.0e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.5e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	8.1e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/27/2023	AG46344	086	Ba-140	<7.7e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.2e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	7.5e-9	µCi/mL
7/25/2023	AG50272	086	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	3.7e-9	µCi/mL
			Zr-95	<3.1e-9	µCi/mL
			Gross Beta	8.5e-9	µCi/mL
8/29/2023	AG54614	086	Ba-140	<6.9e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	9.9e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
9/26/2023	AG57857	086	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.4e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.0e-9	µCi/mL
			I-131	<2.3e-9	µCi/mL
			La-140	<2.0e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.6e-9	µCi/mL
			Zn-65	<3.1e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	9.0e-9	µCi/mL
10/31/2023	AG61810	086	Ba-140	<7.7e-9	µCi/mL
			Co-58	<2.1e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	9.7e-9	µCi/mL
11/28/2023	AG64891	086	Ba-140	<7.6e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.6e-9	µCi/mL
			Gross Beta	8.5e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/27/2023	AG67362	086	Ba-140	<7.6e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	7.9e-9	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Water Composite Samples					
2/21/2023	AG23550	057	Ba-140	<9.1e-6	µCi/mL
			Be-7	1.83e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.6e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<5.1e-6	µCi/mL
			I-131	<2.9e-6	µCi/mL
			La-140	<2.9e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<5.7e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL
1/13/2023	AG23555	085	H-3	1.250e-5	µCi/mL
4/25/2023	AG35962	085	H-3	1.420e-5	µCi/mL
8/3/2023	AG47709	085	H-3	1.520e-5	µCi/mL
10/27/2023	AG59242	085	H-3	1.420e-5	µCi/mL
1/13/2023	AG23556	086	H-3	<1.0e-6	µCi/mL
4/25/2023	AG35963	086	H-3	<1.0e-6	µCi/mL
8/3/2023	AG47710	086	H-3	<1.0e-6	µCi/mL
10/27/2023	AG59243	086	H-3	<1.0e-6	µCi/mL

NOTE: Indicates the analysis was by alpha spectrometry, or Ra-226, analysis by radon emanation.*
*** Indicates the tritium (H-3) analysis for food product, sediment, and vegetation is reported in µCi/mL*

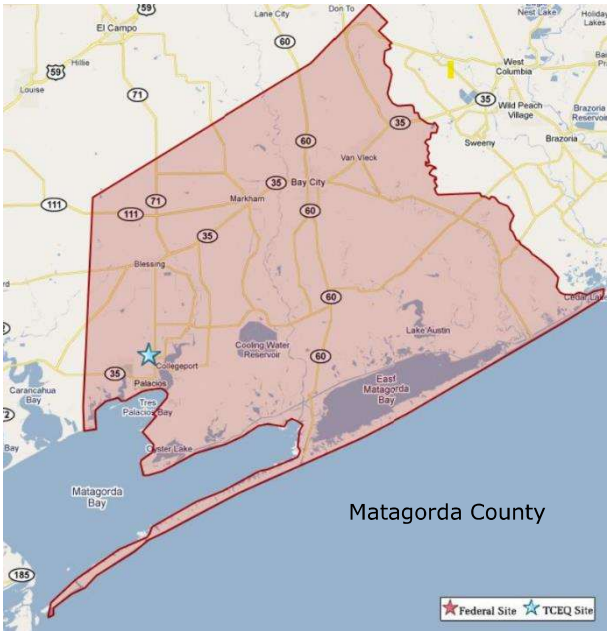
South Texas Project

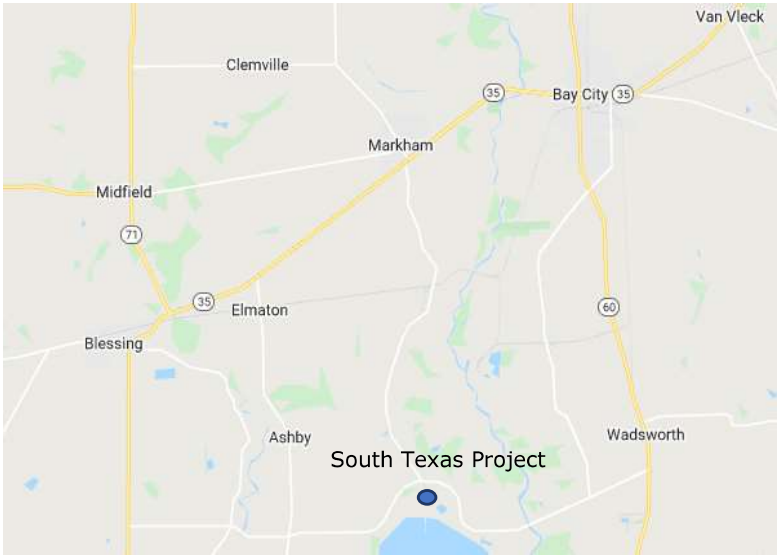
Radiation Branch Site No. 012

The South Texas Project (STP) is a commercial nuclear power plant operated by STP Nuclear Operating Company and is located 89 miles southwest of Houston and 14 miles south-southwest of Bay City. Two 1250 megawatt (electric) Westinghouse pressurized water nuclear reactors are in operation at the site. Unit 1 became operational in August of 1988 and Unit 2 in June of 1989.

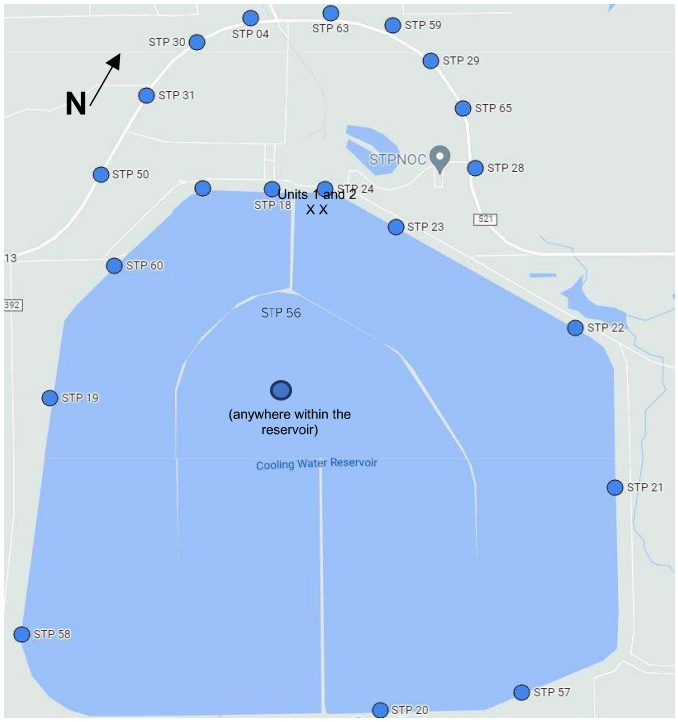
STP Nuclear Operating Company is owned by NRG Energy, Austin Energy, and City Public Service of San Antonio. STP Nuclear Operating Company manages and operates the plant for its owners, who share its energy in proportion to their ownership interest. The Radiation Branch Surveillance Program consists of OSL monitoring and sampling air, fish, food products, sediment, vegetation, and water.

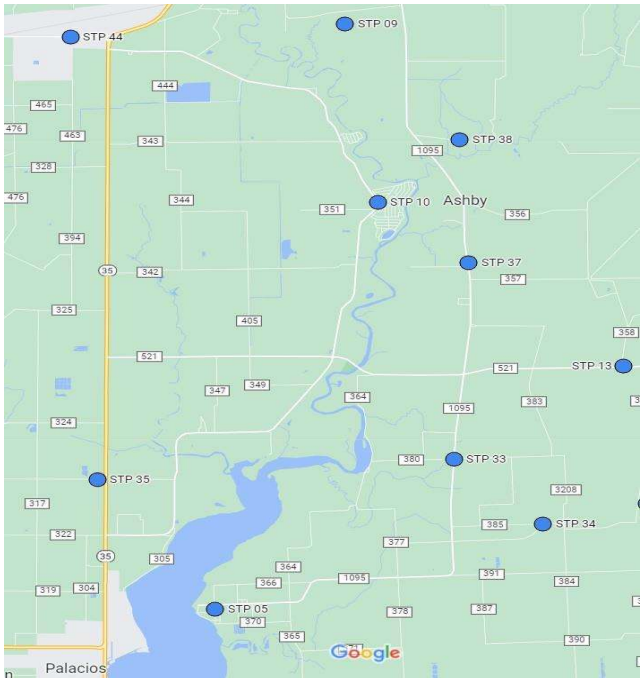
Shaded area indicates location of Matagorda County

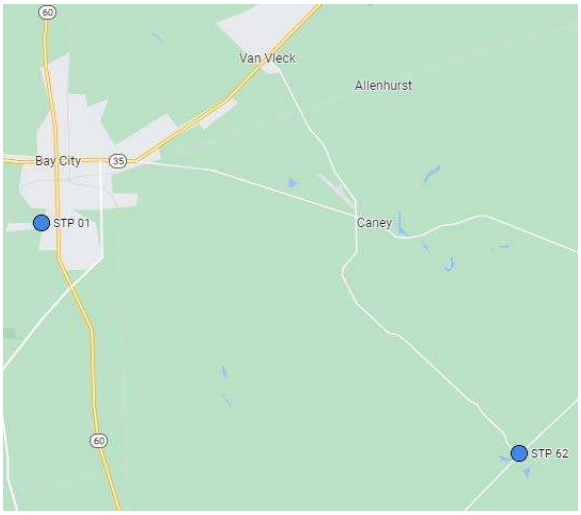


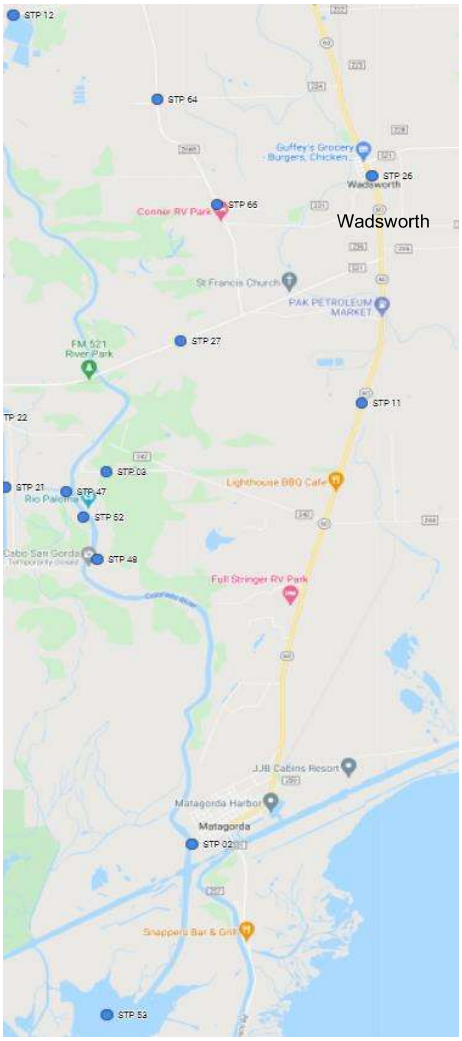


South Texas Project
Monitoring Station Locations









South Texas Project
Environmental Sample Results

Optically Stimulated Luminescent Dosimeter (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	26	31	34	34	125	
2	26	30	35	33	124	
3	26	30	36	33	125	
4	26	31	38	34	129	
5	24	29	34	33	120	
9	25	31	35	33	124	
10	26	29	33	35	123	
11	26	29	34	35	124	
12	27	31	37	36	131	
13	26	33	33	36	128	
18	24	28	31	30	113	
19	25	30	33	35	123	
20	26	30	33	36	125	
21	25	27	33	32	117	
22	25	31	35	35	126	
23	24	26	32	31	113	
24	28	31	35	35	129	
26	23	27	30	30	110	
27	27	30	37	35	129	
28	26	31	38	34	129	
29	28	30	36	35	129	
30	27	30	36	35	128	
31	27	34	41	37	139	
33	26	30	40	37	133	
34	27	36	33	35	131	
35	26	31	35	36	128	
37	29	31	37	37	134	
38	25	28	33	34	120	
40	25	29	0	34	88	QTR 3 OSL Not Found
42	31	34	42	41	148	
44	24	27	33	32	116	
50	28	34	38	39	139	
51	28	31	37	34	130	
57	25	28	33	33	119	
58	25	29	34	32	120	
59	28	18	37	35	118	
60	27	33	36	37	133	
61	25	29	33	0	87	QTR 4 OSL Not Found
62	29	0	39	38	106	QTR 2 OSL Not Found
63	27	32	35	33	127	
64	27	30	37	33	127	
65	26	30	36	35	127	
66	27	29	37	36	129	
67	26	31	37	35	129	

NOTE: *[1]Background is not subtracted from the data*
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
2/21/2023	AG23551	030	Ba-140	<8.9e-6	µCi/mL
			Be-7	3.00e-4	µCi/mL
			Co-58	<2.7e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.8e-6	µCi/mL
			Fe-59	<5.0e-6	µCi/mL
			I-131	<2.9e-6	µCi/mL
			La-140	<3.4e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<6.4e-6	µCi/mL
			Zr-95	<4.9e-6	µCi/mL
5/4/2023	AG35958	030	Ba-140	<3.8e-6	µCi/mL
			Be-7	3.63e-4	µCi/mL
			Co-58	<1.3e-6	µCi/mL
			Co-60	<1.7e-6	µCi/mL
			Cs-134	<1.4e-6	µCi/mL
			Cs-137	<1.4e-6	µCi/mL
			Fe-59	<2.8e-6	µCi/mL
			I-131	<1.1e-6	µCi/mL
			K-40	4.3e-5	µCi/mL
			La-140	<1.7e-6	µCi/mL
			Mn-54	<1.3e-6	µCi/mL
			Nb-95	<1.4e-6	µCi/mL
			Zn-65	<3.2e-6	µCi/mL
			Zr-95	<2.2e-6	µCi/mL
7/14/2023	AG47705	030	Ba-140	<8.8e-6	µCi/mL
			Be-7	3.83e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.4e-6	µCi/mL
			Cs-137	<2.7e-6	µCi/mL
			Fe-59	<4.8e-6	µCi/mL
			I-131	<2.7e-6	µCi/mL
			K-40	1.32e-4	µCi/mL
			La-140	<3.0e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<6.1e-6	µCi/mL
			Zr-95	<4.3e-6	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
11/15/2023	AG59246	030	Ba-140	<9.3e-6	µCi/mL
			Be-7	3.61e-4	µCi/mL
			Co-58	<2.7e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.6e-6	µCi/mL
			Cs-137	<3.0e-6	µCi/mL
			Fe-59	<5.5e-6	µCi/mL
			I-131	<3.1e-6	µCi/mL
			La-140	<3.4e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<5.9e-6	µCi/mL
			Zr-95	<4.8e-6	µCi/mL
3/21/2023	AG23552	035	Ba-140	<9.4e-6	µCi/mL
			Be-7	3.54e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.7e-6	µCi/mL
			Cs-134	<2.4e-6	µCi/mL
			Cs-137	<2.9e-6	µCi/mL
			Fe-59	<5.0e-6	µCi/mL
			I-131	<3.1e-6	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<6.4e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL
5/4/2023	AG35959	035	Ba-140	<3.9e-6	µCi/mL
			Be-7	3.77e-4	µCi/mL
			Co-58	<1.3e-6	µCi/mL
			Co-60	<1.7e-6	µCi/mL
			Cs-134	<1.4e-6	µCi/mL
			Cs-137	<1.4e-6	µCi/mL
			Fe-59	<2.8e-6	µCi/mL
			I-131	<1.1e-6	µCi/mL
			K-40	4.8e-5	µCi/mL
			La-140	<1.8e-6	µCi/mL
			Mn-54	<1.2e-6	µCi/mL
			Nb-95	<1.3e-6	µCi/mL
			Zn-65	<3.2e-6	µCi/mL
			Zr-95	<2.2e-6	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
7/20/2023	AG47706	035	Ba-140	<3.8e-6	µCi/mL
			Be-7	4.78e-4	µCi/mL
			Co-58	<1.3e-6	µCi/mL
			Co-60	<1.6e-6	µCi/mL
			Cs-134	<1.4e-6	µCi/mL
			Cs-137	<1.3e-6	µCi/mL
			Fe-59	<2.6e-6	µCi/mL
			I-131	<1.1e-6	µCi/mL
			K-40	3.9e-5	µCi/mL
			La-140	<1.9e-6	µCi/mL
			Mn-54	<1.5e-6	µCi/mL
			Nb-95	<1.3e-6	µCi/mL
			Zn-65	<3.4e-6	µCi/mL
			Zr-95	<2.3e-6	µCi/mL
11/15/2023	AG59247	035	Ba-140	<9.5e-6	µCi/mL
			Be-7	3.44e-4	µCi/mL
			Co-58	<2.7e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<2.9e-6	µCi/mL
			Fe-59	<5.2e-6	µCi/mL
			I-131	<3.0e-6	µCi/mL
			La-140	<3.6e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.9e-6	µCi/mL
			Zn-65	<6.1e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
1/3/2023	AG23245	030	I-131	<5.6e-15	µCi/mL
			K-40	2.63e-13	µCi/mL
			Tl-208	5.0e-15	µCi/mL
1/9/2023	AG23880	030	I-131	<6.2e-15	µCi/mL
			K-40	2.07e-13	µCi/mL
1/17/2023	AG25441	030	I-131	<4.9e-15	µCi/mL
			K-40	1.05e-13	µCi/mL
1/25/2023	AG26588	030	I-131	<5.5e-15	µCi/mL
			K-40	1.97e-13	µCi/mL
1/31/2023	AG27625	030	I-131	<9.6e-15	µCi/mL
			K-40	2.14e-13	µCi/mL
2/7/2023	AG27834	030	I-131	<2.3e-15	µCi/mL
			K-40	2.82e-13	µCi/mL
2/13/2023	AG28668	030	I-131	<6.3e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
2/21/2023	AG30074	030	I-131	<1.9e-15	µCi/mL
			K-40	2.21e-13	µCi/mL
2/28/2023	AG31210	030	I-131	<6.3e-15	µCi/mL
			K-40	2.09e-13	µCi/mL
3/6/2023	AG32279	030	I-131	<2.9e-15	µCi/mL
			K-40	3.15e-13	µCi/mL
3/14/2023	AG33265	030	I-131	<5.7e-15	µCi/mL
			K-40	1.95e-13	µCi/mL
3/22/2023	AG34029	030	I-131	<4.3e-15	µCi/mL
			K-40	1.76e-13	µCi/mL
3/28/2023	AG34547	030	I-131	<6.0e-15	µCi/mL
			K-40	2.66e-13	µCi/mL
4/4/2023	AG35698	030	I-131	<2.2e-15	µCi/mL
			K-40	2.66e-13	µCi/mL
4/11/2023	AG36821	030	I-131	<7.1e-15	µCi/mL
			K-40	4.16e-13	µCi/mL
4/18/2023	AG37431	030	I-131	<5.3e-15	µCi/mL
			K-40	4.22e-13	µCi/mL
4/25/2023	AG38083	030	I-131	<4.9e-15	µCi/mL
			K-40	3.73e-13	µCi/mL
5/2/2023	AG39250	030	I-131	<2.3e-15	µCi/mL
			K-40	2.70e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
5/9/2023	AG40125	030	I-131	<2.2e-15	µCi/mL
			K-40	2.27e-13	µCi/mL
5/16/2023	AG40935	030	I-131	<2.2e-15	µCi/mL
			K-40	2.41e-13	µCi/mL
5/23/2023	AG41999	030	I-131	<3.3e-13	µCi/mL
			K-40	1.19e-11	µCi/mL
5/30/2023	AG42646	030	I-131	<2.2e-15	µCi/mL
			K-40	2.46e-13	µCi/mL
6/7/2023	AG43844	030	I-131	<3.9e-15	µCi/mL
			K-40	1.39e-13	µCi/mL
6/13/2023	AG44623	030	I-131	<6.8e-15	µCi/mL
			K-40	2.86e-13	µCi/mL
6/19/2023	AG45106	030	I-131	<6.5e-15	µCi/mL
			K-40	3.16e-13	µCi/mL
6/27/2023	AG46606	030	I-131	<4.5e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
7/5/2023	AG47436	030	I-131	<6.8e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
7/11/2023	AG48317	030	I-131	<7.2e-15	µCi/mL
			K-40	2.83e-13	µCi/mL
7/18/2023	AG49469	030	I-131	<2.3e-15	µCi/mL
			K-40	3.13e-13	µCi/mL
7/25/2023	AG50277	030	I-131	<2.2e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
8/2/2023	AG51693	030	I-131	<7.3e-15	µCi/mL
			K-40	1.98e-13	µCi/mL
8/9/2023	AG52495	030	Bi-214	1.85e-14	µCi/mL
			I-131	<3.2e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
			Pb-214	1.25e-14	µCi/mL
8/15/2023	AG52924	030	I-131	<2.5e-15	µCi/mL
			K-40	3.27e-13	µCi/mL
8/22/2023	AG53832	030	I-131	<2.2e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
8/29/2023	AG54692	030	I-131	<2.3e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
9/5/2023	AG55196	030	I-131	<2.2e-15	µCi/mL
			K-40	2.60e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
9/12/2023	AG56111	030	I-131	<4.8e-15	µCi/mL
			K-40	1.86e-13	µCi/mL
9/19/2023	AG57129	030	I-131	<5.2e-15	µCi/mL
			K-40	2.01e-13	µCi/mL
9/26/2023	AG57999	030	I-131	<7.6e-15	µCi/mL
			K-40	1.84e-13	µCi/mL
10/3/2023	AG58494	030	I-131	<2.2e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
10/10/2023	AG59527	030	I-131	<5.5e-15	µCi/mL
			K-40	2.38e-13	µCi/mL
10/17/2023	AG60321	030	I-131	<2.2e-15	µCi/mL
			K-40	2.47e-13	µCi/mL
10/24/2023	AG61160	030	I-131	<2.2e-15	µCi/mL
			K-40	2.63e-13	µCi/mL
10/31/2023	AG62249	030	I-131	<5.9e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
11/7/2023	AG62953	030	I-131	<2.3e-15	µCi/mL
			K-40	2.75e-13	µCi/mL
11/14/2023	AG63880	030	I-131	<5.7e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
11/20/2023	AG64246	030	I-131	<5.5e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
11/28/2023	AG65341	030	I-131	<7.0e-15	µCi/mL
			K-40	1.72e-13	µCi/mL
12/5/2023	AG65981	030	I-131	<5.7e-15	µCi/mL
			K-40	1.81e-13	µCi/mL
12/12/2023	AG66578	030	I-131	<5.2e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
12/18/2023	AG66731	030	I-131	<5.1e-15	µCi/mL
			K-40	2.82e-13	µCi/mL
12/27/2023	AG67372	030	I-131	<6.8e-15	µCi/mL
			K-40	1.70e-13	µCi/mL
1/3/2023	AG23243	035	I-131	<5.6e-15	µCi/mL
			K-40	2.46e-13	µCi/mL
1/9/2023	AG23878	035	I-131	<5.9e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
1/17/2023	AG25439	035	I-131	<4.8e-15	µCi/mL
			K-40	1.89e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
1/25/2023	AG26586	035	I-131	<5.7e-15	µCi/mL
			K-40	1.66e-13	µCi/mL
1/31/2023	AG27623	035	I-131	<9.1e-15	µCi/mL
			K-40	2.51e-13	µCi/mL
2/7/2023	AG27832	035	I-131	<5.3e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
2/13/2023	AG28666	035	I-131	<6.0e-15	µCi/mL
			K-40	2.51e-13	µCi/mL
2/21/2023	AG30072	035	I-131	<4.6e-15	µCi/mL
			K-40	2.33e-13	µCi/mL
2/28/2023	AG31208	035	I-131	<5.8e-15	µCi/mL
			K-40	1.75e-13	µCi/mL
3/6/2023	AG32277	035	I-131	<7.1e-15	µCi/mL
			K-40	2.65e-13	µCi/mL
3/14/2023	AG33263	035	I-131	<5.3e-15	µCi/mL
			K-40	1.91e-13	µCi/mL
3/22/2023	AG34027	035	I-131	<1.9e-15	µCi/mL
			K-40	2.25e-13	µCi/mL
3/28/2023	AG34545	035	I-131	<5.7e-15	µCi/mL
			K-40	2.90e-13	µCi/mL
4/4/2023	AG35696	035	I-131	<5.6e-15	µCi/mL
			K-40	2.03e-13	µCi/mL
4/11/2023	AG36819	035	I-131	<7.5e-15	µCi/mL
			K-40	4.59e-13	µCi/mL
4/18/2023	AG37429	035	I-131	<5.5e-15	µCi/mL
			K-40	3.53e-13	µCi/mL
4/25/2023	AG38081	035	I-131	<4.7e-15	µCi/mL
			K-40	4.01e-13	µCi/mL
5/2/2023	AG39248	035	I-131	<5.5e-15	µCi/mL
			K-40	3.69e-13	µCi/mL
5/9/2023	AG40123	035	I-131	<5.5e-15	µCi/mL
			K-40	1.86e-13	µCi/mL
5/16/2023	AG40933	035	I-131	<5.5e-15	µCi/mL
			K-40	1.89e-13	µCi/mL
5/23/2023	AG41997	035	I-131	<2.5e-15	µCi/mL
			K-40	2.50e-13	µCi/mL
5/30/2023	AG42644	035	I-131	<4.7e-15	µCi/mL
			K-40	2.26e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
6/7/2023	AG43842	035	I-131	<2.0e-15	µCi/mL
			K-40	2.47e-13	µCi/mL
6/13/2023	AG44621	035	I-131	<7.0e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
6/19/2023	AG45104	035	I-131	<5.8e-15	µCi/mL
			K-40	2.67e-13	µCi/mL
6/27/2023	AG46604	035	I-131	<4.8e-15	µCi/mL
			K-40	1.65e-13	µCi/mL
7/5/2023	AG47434	035	I-131	<6.5e-15	µCi/mL
			K-40	2.18e-13	µCi/mL
7/11/2023	AG48315	035	I-131	<6.8e-15	µCi/mL
			K-40	2.82e-13	µCi/mL
7/18/2023	AG49467	035	I-131	<5.3e-15	µCi/mL
			K-40	4.19e-13	µCi/mL
7/25/2023	AG50275	035	I-131	<5.5e-15	µCi/mL
			K-40	3.85e-13	µCi/mL
8/2/2023	AG51691	035	I-131	<6.4e-15	µCi/mL
			K-40	1.88e-13	µCi/mL
8/9/2023	AG52493	035	I-131	<8.2e-15	µCi/mL
			K-40	1.95e-13	µCi/mL
8/15/2023	AG52922	035	I-131	<6.7e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
8/22/2023	AG53830	035	I-131	<5.7e-15	µCi/mL
			K-40	2.43e-13	µCi/mL
8/29/2023	AG54690	035	I-131	<5.5e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
9/5/2023	AG55194	035	I-131	<5.4e-15	µCi/mL
			K-40	2.18e-13	µCi/mL
9/12/2023	AG56109	035	I-131	<2.2e-15	µCi/mL
			K-40	2.61e-13	µCi/mL
9/19/2023	AG57127	035	I-131	<5.3e-15	µCi/mL
			K-40	1.84e-13	µCi/mL
9/26/2023	AG57997	035	I-131	<7.3e-15	µCi/mL
			K-40	2.16e-13	µCi/mL
10/3/2023	AG58492	035	I-131	<5.3e-15	µCi/mL
			K-40	2.07e-13	µCi/mL
10/10/2023	AG59525	035	I-131	<5.3e-15	µCi/mL
			K-40	2.22e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
10/17/2023	AG60319	035	I-131	<5.6e-15	µCi/mL
			K-40	2.05e-13	µCi/mL
10/24/2023	AG61158	035	I-131	<5.4e-15	µCi/mL
			K-40	2.36e-13	µCi/mL
10/31/2023	AG62247	035	I-131	<6.2e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
11/7/2023	AG62951	035	I-131	<5.4e-15	µCi/mL
			K-40	1.76e-13	µCi/mL
11/14/2023	AG63882	035	I-131	<2.2e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
11/20/2023	AG64244	035	I-131	<5.9e-15	µCi/mL
			K-40	2.50e-13	µCi/mL
11/28/2023	AG65339	035	I-131	<6.6e-15	µCi/mL
			K-40	1.94e-13	µCi/mL
12/5/2023	AG65979	035	I-131	<5.9e-15	µCi/mL
			K-40	2.70e-13	µCi/mL
12/12/2023	AG66576	035	I-131	<5.4e-15	µCi/mL
			K-40	2.41e-13	µCi/mL
12/18/2023	AG66729	035	I-131	<5.4e-15	µCi/mL
			K-40	2.51e-13	µCi/mL
12/27/2023	AG67370	035	I-131	<6.9e-15	µCi/mL
			K-40	1.46e-13	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
1/3/2023	AG23244	030	Gross Beta	1.92e-14	µCi/mL
1/9/2023	AG23879	030	Gross Beta	2.31e-14	µCi/mL
1/17/2023	AG25440	030	Gross Beta	2.28e-14	µCi/mL
1/25/2023	AG26587	030	Gross Beta	2.45e-14	µCi/mL
1/31/2023	AG27624	030	Gross Beta	2.64e-14	µCi/mL
2/7/2023	AG27833	030	Gross Beta	2.15e-14	µCi/mL
2/13/2023	AG28667	030	Gross Beta	2.11e-14	µCi/mL
2/21/2023	AG30073	030	Gross Beta	2.03e-14	µCi/mL
2/28/2023	AG31209	030	Gross Beta	1.77e-14	µCi/mL
3/6/2023	AG32278	030	Gross Beta	2.51e-14	µCi/mL
3/14/2023	AG33264	030	Gross Beta	1.99e-14	µCi/mL
3/22/2023	AG34028	030	Gross Beta	2.27e-14	µCi/mL
3/28/2023	AG34546	030	Gross Beta	2.18e-14	µCi/mL
4/4/2023	AG35697	030	Gross Beta	2.10e-14	µCi/mL
4/11/2023	AG36820	030	Gross Beta	1.38e-14	µCi/mL
4/18/2023	AG37430	030	Gross Beta	2.20e-14	µCi/mL
4/25/2023	AG38082	030	Gross Beta	2.14e-14	µCi/mL
5/2/2023	AG39249	030	Gross Beta	1.84e-14	µCi/mL
5/9/2023	AG40124	030	Gross Beta	2.84e-14	µCi/mL
5/16/2023	AG40934	030	Gross Beta	1.65e-14	µCi/mL
5/23/2023	AG41998	030	Gross Beta	2.66e-13	µCi/mL
5/30/2023	AG42645	030	Gross Beta	2.49e-14	µCi/mL
6/7/2023	AG43843	030	Gross Beta	2.54e-14	µCi/mL
6/13/2023	AG44622	030	Gross Beta	2.45e-14	µCi/mL
6/19/2023	AG45105	030	Gross Beta	2.12e-14	µCi/mL
6/27/2023	AG46605	030	Gross Beta	1.63e-14	µCi/mL
7/5/2023	AG47435	030	Gross Beta	2.22e-14	µCi/mL
7/11/2023	AG48316	030	Gross Beta	1.67e-14	µCi/mL
7/18/2023	AG49468	030	Gross Beta	2.69e-14	µCi/mL
7/25/2023	AG50276	030	Gross Beta	2.38e-14	µCi/mL
8/2/2023	AG51692	030	Gross Beta	2.54e-14	µCi/mL
8/9/2023	AG52494	030	Gross Beta	2.08e-14	µCi/mL
8/15/2023	AG52923	030	Gross Beta	1.97e-14	µCi/mL
8/22/2023	AG53831	030	Gross Beta	1.92e-14	µCi/mL
8/29/2023	AG54691	030	Gross Beta	2.86e-14	µCi/mL
9/5/2023	AG55195	030	Gross Beta	3.87e-14	µCi/mL
9/12/2023	AG56110	030	Gross Beta	2.58e-14	µCi/mL
9/19/2023	AG57128	030	Gross Beta	3.38e-14	µCi/mL

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Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
9/26/2023	AG57998	030	Gross Beta	2.74e-14	µCi/mL
10/3/2023	AG58493	030	Gross Beta	2.54e-14	µCi/mL
10/10/2023	AG59526	030	Gross Beta	2.03e-14	µCi/mL
10/17/2023	AG60320	030	Gross Beta	1.66e-14	µCi/mL
10/24/2023	AG61159	030	Gross Beta	2.48e-14	µCi/mL
10/31/2023	AG62248	030	Gross Beta	1.90e-14	µCi/mL
11/7/2023	AG62952	030	Gross Beta	2.86e-14	µCi/mL
11/14/2023	AG63879	030	Gross Beta	2.35e-14	µCi/mL
11/20/2023	AG64245	030	Gross Beta	3.19e-14	µCi/mL
11/28/2023	AG65340	030	Gross Beta	3.28e-14	µCi/mL
12/5/2023	AG65980	030	Gross Beta	3.37e-14	µCi/mL
12/12/2023	AG66577	030	Gross Beta	2.20e-14	µCi/mL
12/18/2023	AG66730	030	Gross Beta	3.25e-14	µCi/mL
12/27/2023	AG67371	030	Gross Beta	2.50e-14	µCi/mL
1/3/2023	AG23242	035	Gross Beta	2.09e-14	µCi/mL
1/9/2023	AG23877	035	Gross Beta	2.40e-14	µCi/mL
1/17/2023	AG25438	035	Gross Beta	2.28e-14	µCi/mL
1/25/2023	AG26585	035	Gross Beta	2.38e-14	µCi/mL
1/31/2023	AG27622	035	Gross Beta	2.45e-14	µCi/mL
2/7/2023	AG27831	035	Gross Beta	2.34e-14	µCi/mL
2/13/2023	AG28665	035	Gross Beta	2.29e-14	µCi/mL
2/21/2023	AG30071	035	Gross Beta	1.94e-14	µCi/mL
2/28/2023	AG31207	035	Gross Beta	1.78e-14	µCi/mL
3/6/2023	AG32276	035	Gross Beta	2.38e-14	µCi/mL
3/14/2023	AG33262	035	Gross Beta	1.97e-14	µCi/mL
3/22/2023	AG34026	035	Gross Beta	2.39e-14	µCi/mL
3/28/2023	AG34544	035	Gross Beta	1.97e-14	µCi/mL
4/4/2023	AG35695	035	Gross Beta	2.15e-14	µCi/mL
4/11/2023	AG36818	035	Gross Beta	1.27e-14	µCi/mL
4/18/2023	AG37428	035	Gross Beta	2.34e-14	µCi/mL
4/25/2023	AG38080	035	Gross Beta	2.23e-14	µCi/mL
5/2/2023	AG39247	035	Gross Beta	1.96e-14	µCi/mL
5/9/2023	AG40122	035	Gross Beta	2.75e-14	µCi/mL
5/16/2023	AG40932	035	Gross Beta	1.61e-14	µCi/mL
5/23/2023	AG41996	035	Gross Beta	2.32e-14	µCi/mL
5/30/2023	AG42643	035	Gross Beta	2.68e-14	µCi/mL
6/7/2023	AG43841	035	Gross Beta	2.43e-14	µCi/mL
6/13/2023	AG44620	035	Gross Beta	2.50e-14	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
6/19/2023	AG45103	035	Gross Beta	2.20e-14	µCi/mL
6/27/2023	AG46603	035	Gross Beta	1.63e-14	µCi/mL
7/5/2023	AG47433	035	Gross Beta	2.10e-14	µCi/mL
7/11/2023	AG48314	035	Gross Beta	1.70e-14	µCi/mL
7/18/2023	AG49466	035	Gross Beta	2.80e-14	µCi/mL
7/25/2023	AG50274	035	Gross Beta	2.38e-14	µCi/mL
8/2/2023	AG51690	035	Gross Beta	2.56e-14	µCi/mL
8/9/2023	AG52492	035	Gross Beta	2.02e-14	µCi/mL
8/15/2023	AG52921	035	Gross Beta	1.89e-14	µCi/mL
8/22/2023	AG53829	035	Gross Beta	1.96e-14	µCi/mL
8/29/2023	AG54689	035	Gross Beta	3.01e-14	µCi/mL
9/5/2023	AG55193	035	Gross Beta	3.88e-14	µCi/mL
9/12/2023	AG56108	035	Gross Beta	2.54e-14	µCi/mL
9/19/2023	AG57126	035	Gross Beta	3.32e-14	µCi/mL
9/26/2023	AG57996	035	Gross Beta	2.81e-14	µCi/mL
10/3/2023	AG58491	035	Gross Beta	2.70e-14	µCi/mL
10/10/2023	AG59524	035	Gross Beta	2.08e-14	µCi/mL
10/17/2023	AG60318	035	Gross Beta	1.94e-14	µCi/mL
10/24/2023	AG61157	035	Gross Beta	2.52e-14	µCi/mL
10/31/2023	AG62246	035	Gross Beta	2.02e-14	µCi/mL
11/7/2023	AG62950	035	Gross Beta	3.05e-14	µCi/mL
11/14/2023	AG63881	035	Gross Beta	2.33e-14	µCi/mL
11/20/2023	AG64243	035	Gross Beta	3.05e-14	µCi/mL
11/28/2023	AG65338	035	Gross Beta	3.35e-14	µCi/mL
12/5/2023	AG65978	035	Gross Beta	3.63e-14	µCi/mL
12/12/2023	AG66575	035	Gross Beta	2.10e-14	µCi/mL
12/18/2023	AG66728	035	Gross Beta	3.46e-14	µCi/mL
12/27/2023	AG67369	035	Gross Beta	2.34e-14	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
10/16/2023	AG60143	004	Ba-140	<3.1e-8	µCi/g
			Be-7	9.92e-7	µCi/g
			Co-58	<8.0e-9	µCi/g
			Co-60	<8.2e-9	µCi/g
			Cs-134	<7.1e-9	µCi/g
			Cs-137	<8.6e-9	µCi/g
			Fe-59	<1.8e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	4.22e-6	µCi/g
			La-140	<8.7e-9	µCi/g
			Mn-54	<7.8e-9	µCi/g
			Nb-95	<8.4e-9	µCi/g
			Pb-212	6.5e-8	µCi/g
			Tl-208	2.10e-8	µCi/g
			Zn-65	<2.1e-8	µCi/g
			Zr-95	<1.5e-8	µCi/g
3/19/2023	AG33473	030	Ba-140	<5.0e-8	µCi/g
			Be-7	1.22e-6	µCi/g
			Co-58	<1.4e-8	µCi/g
			Co-60	<1.4e-8	µCi/g
			Cs-134	<1.3e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<3.1e-8	µCi/g
			I-131	<1.6e-8	µCi/g
			K-40	6.46e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<1.4e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Pb-212	3.9e-8	µCi/g
			Zn-65	<3.5e-8	µCi/g
			Zr-95	<2.3e-8	µCi/g

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
6/12/2023	AG44380	030	Ba-140	<7.9e-8	µCi/g
			Be-7	2.29e-6	µCi/g
			Co-58	<2.1e-8	µCi/g
			Co-60	<2.4e-8	µCi/g
			Cs-134	<2.1e-8	µCi/g
			Cs-137	<2.1e-8	µCi/g
			Fe-59	<5.1e-8	µCi/g
			I-131	<2.4e-8	µCi/g
			K-40	9.87e-6	µCi/g
			La-140	<2.6e-8	µCi/g
			Mn-54	<2.2e-8	µCi/g
			Nb-95	<2.2e-8	µCi/g
			Zn-65	<5.6e-8	µCi/g
			Zr-95	<3.5e-8	µCi/g
3/19/2023	AG33472	035	Ba-140	<4.5e-8	µCi/g
			Be-7	2.29e-6	µCi/g
			Co-58	<1.3e-8	µCi/g
			Co-60	<1.6e-8	µCi/g
			Cs-134	<1.3e-8	µCi/g
			Cs-137	<1.4e-8	µCi/g
			Fe-59	<3.0e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	5.76e-6	µCi/g
			La-140	<1.6e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Pb-212	4.0e-8	µCi/g
			Zn-65	<3.3e-8	µCi/g
			Zr-95	<2.1e-8	µCi/g

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
6/12/2023	AG44379	035	Ba-140	<6.0e-8	µCi/g
			Be-7	2.72e-6	µCi/g
			Co-58	<1.5e-8	µCi/g
			Co-60	<1.6e-8	µCi/g
			Cs-134	<1.5e-8	µCi/g
			Cs-137	<1.6e-8	µCi/g
			Fe-59	<3.1e-8	µCi/g
			I-131	<2.0e-8	µCi/g
			K-40	3.68e-6	µCi/g
			La-140	<1.7e-8	µCi/g
			Mn-54	<1.5e-8	µCi/g
			Nb-95	<1.6e-8	µCi/g
			Zn-65	<3.6e-8	µCi/g
			Zr-95	<2.6e-8	µCi/g
8/28/2023	AG54607	035	Ba-140	<5.4e-8	µCi/g
			Be-7	6.58e-7	µCi/g
			Bi-212	2.8e-7	µCi/g
			Co-58	<1.4e-8	µCi/g
			Co-60	<1.5e-8	µCi/g
			Cs-134	<1.4e-8	µCi/g
			Cs-137	<1.5e-8	µCi/g
			Fe-59	<2.8e-8	µCi/g
			I-131	<1.6e-8	µCi/g
			K-40	4.58e-6	µCi/g
			La-140	<1.7e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Pb-212	3.09e-7	µCi/g
			Tl-208	1.05e-7	µCi/g
			Zn-65	<3.3e-8	µCi/g
			Zr-95	<2.3e-8	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
10/16/2023	AG60144	035	Ba-140	<4.3e-8	µCi/g
			Be-7	3.43e-7	µCi/g
			Co-58	<1.1e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.5e-8	µCi/g
			I-131	<1.3e-8	µCi/g
			K-40	5.39e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<1.1e-8	µCi/g
			Nb-95	<1.1e-8	µCi/g
			Pb-212	9.0e-8	µCi/g
			Tl-208	3.10e-8	µCi/g
			Zn-65	<2.8e-8	µCi/g
			Zr-95	<1.8e-8	µCi/g
8/28/2023	AG54606	063	Ba-140	<4.5e-8	µCi/g
			Be-7	3.17e-7	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<2.7e-8	µCi/g
			I-131	<1.6e-8	µCi/g
			K-40	7.29e-6	µCi/g
			La-140	<1.3e-8	µCi/g
			Mn-54	<1.2e-8	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Pb-212	6.4e-8	µCi/g
			Tl-208	2.48e-8	µCi/g
			Zn-65	<3.0e-8	µCi/g
			Zr-95	<2.2e-8	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
5/1/2023	AG39246	053	Ba-140	<4.0e-8	µCi/g
			Co-58	<1.0e-8	µCi/g
			Co-60	<9.6e-9	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<9.6e-9	µCi/g
			Fe-59	<2.0e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	3.08e-7	µCi/g
			La-140	<1.4e-8	µCi/g
			Mn-54	<9.8e-9	µCi/g
			Nb-95	<9.7e-9	µCi/g
			Zn-65	<2.3e-8	µCi/g
			Zr-95	<1.8e-8	µCi/g
10/10/2023	AG59934	053	Ba-140	<4.2e-8	µCi/g
			Co-58	<8.9e-9	µCi/g
			Co-60	<9.7e-9	µCi/g
			Cs-134	9.6e-9	µCi/g
			Cs-137	<9.0e-9	µCi/g
			Fe-59	<2.0e-8	µCi/g
			I-131	<1.5e-8	µCi/g
			K-40	7.0e-7	µCi/g
			La-140	<1.6e-8	µCi/g
			Mn-54	<9.0e-9	µCi/g
			Nb-95	<1.0e-8	µCi/g
			Zn-65	<2.0e-8	µCi/g
			Zr-95	<1.6e-8	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
4/18/2023	AG37427	052	Ba-140	<2.7e-7	µCi/g
			Co-58	<7.9e-8	µCi/g
			Co-60	<7.1e-8	µCi/g
			Cs-134	<8.8e-8	µCi/g
			Cs-137	<8.1e-8	µCi/g
			Fe-59	<1.7e-7	µCi/g
			I-131	<9.2e-8	µCi/g
			K-40	9.8e-6	µCi/g
			La-140	<1.1e-7	µCi/g
			Mn-54	<7.7e-8	µCi/g
			Nb-95	<9.5e-8	µCi/g
			Pb-212	6.1e-7	µCi/g
			Pb-214	5.3e-7	µCi/g
			Tl-208	2.95e-7	µCi/g
			Zn-65	<2.3e-7	µCi/g
			Zr-95	<1.3e-7	µCi/g

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
3/19/2023	AG33474	030	Ba-140	<5.2e-8	µCi/g
			Be-7	4.12e-7	µCi/g
			Co-58	<1.4e-8	µCi/g
			Co-60	<1.5e-8	µCi/g
			Cs-134	<1.3e-8	µCi/g
			Cs-137	<1.5e-8	µCi/g
			Fe-59	<2.9e-8	µCi/g
			I-131	<1.8e-8	µCi/g
			K-40	6.60e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<1.4e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Pb-212	3.5e-8	µCi/g
			Zn-65	<3.4e-8	µCi/g
			Zr-95	<2.5e-8	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
4/24/2023	AG37819	030	Ba-140	<3.1e-8	µCi/g
			Be-7	3.96e-7	µCi/g
			Co-58	<8.0e-9	µCi/g
			Co-60	<8.5e-9	µCi/g
			Cs-134	<7.6e-9	µCi/g
			Cs-137	<8.6e-9	µCi/g
			Fe-59	<1.7e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	3.35e-6	µCi/g
			La-140	<8.9e-9	µCi/g
			Mn-54	<8.4e-9	µCi/g
			Nb-95	<8.3e-9	µCi/g
			Pb-212	2.5e-8	µCi/g
			Tl-208	1.43e-8	µCi/g
			Zn-65	<2.2e-8	µCi/g
			Zr-95	<1.5e-8	µCi/g
6/20/2023	AG45107	030	Ba-140	<3.1e-8	µCi/g
			Be-7	2.47e-7	µCi/g
			Co-58	<8.1e-9	µCi/g
			Co-60	<9.6e-9	µCi/g
			Cs-134	<7.9e-9	µCi/g
			Cs-137	<8.7e-9	µCi/g
			Fe-59	<2.0e-8	µCi/g
			I-131	<9.3e-9	µCi/g
			K-40	3.81e-6	µCi/g
			La-140	<9.5e-9	µCi/g
			Mn-54	<8.7e-9	µCi/g
			Nb-95	<8.1e-9	µCi/g
			Pb-212	4.9e-8	µCi/g
			Tl-208	2.01e-8	µCi/g
			Zn-65	<2.2e-8	µCi/g
			Zr-95	<1.6e-8	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
8/21/2023	AG53574	030	Ba-140	<3.0e-8	µCi/g
			Be-7	2.26e-7	µCi/g
			Co-58	<7.9e-9	µCi/g
			Co-60	<8.5e-9	µCi/g
			Cs-134	<6.8e-9	µCi/g
			Cs-137	<8.0e-9	µCi/g
			Fe-59	<1.8e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	5.49e-6	µCi/g
			La-140	<8.2e-9	µCi/g
			Mn-54	<7.9e-9	µCi/g
			Nb-95	<7.8e-9	µCi/g
			Pb-212	2.6e-8	µCi/g
			Tl-208	7.9e-9	µCi/g
			Zn-65	<2.0e-8	µCi/g
			Zr-95	<1.4e-8	µCi/g
10/23/2023	AG61371	030	Ba-140	<3.4e-8	µCi/g
			Be-7	1.51e-7	µCi/g
			Co-58	<7.3e-9	µCi/g
			Co-60	<8.3e-9	µCi/g
			Cs-134	<7.1e-9	µCi/g
			Cs-137	<7.4e-9	µCi/g
			Fe-59	<1.8e-8	µCi/g
			I-131	<1.3e-8	µCi/g
			K-40	3.13e-6	µCi/g
			La-140	<1.1e-8	µCi/g
			Mn-54	<7.3e-9	µCi/g
			Nb-95	<8.1e-9	µCi/g
			Pb-212	1.58e-8	µCi/g
			Zn-65	<1.9e-8	µCi/g
			Zr-95	<1.3e-8	µCi/g

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
11/15/2023	AG64077	030	Ba-140	<2.8e-8	µCi/g
			Be-7	3.88e-7	µCi/g
			Co-58	<6.0e-9	µCi/g
			Co-60	<6.3e-9	µCi/g
			Cs-134	<5.1e-9	µCi/g
			Cs-137	<6.6e-9	µCi/g
			Fe-59	<1.3e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	2.98e-6	µCi/g
			La-140	<6.9e-9	µCi/g
			Mn-54	<5.7e-9	µCi/g
			Nb-95	<6.7e-9	µCi/g
			Pb-212	2.15e-8	µCi/g
			Zn-65	<1.4e-8	µCi/g
			Zr-95	<1.1e-8	µCi/g
5/10/2023	AG40121	063	Ba-140	<2.8e-8	µCi/g
			Be-7	1.28e-6	µCi/g
			Co-58	<7.7e-9	µCi/g
			Co-60	<1.1e-8	µCi/g
			Cs-134	<7.7e-9	µCi/g
			Cs-137	<8.3e-9	µCi/g
			Fe-59	<1.9e-8	µCi/g
			I-131	<8.3e-9	µCi/g
			K-40	3.81e-6	µCi/g
			La-140	<8.7e-9	µCi/g
			Mn-54	<8.1e-9	µCi/g
			Nb-95	<7.8e-9	µCi/g
			Pb-212	3.3e-8	µCi/g
			Tl-208	1.40e-8	µCi/g
			Zn-65	<2.1e-8	µCi/g
			Zr-95	<1.4e-8	µCi/g

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
7/17/2023	AG49173	063	Ba-140	<2.9e-8	µCi/g
			Be-7	7.84e-7	µCi/g
			Co-58	<7.1e-9	µCi/g
			Co-60	<8.5e-9	µCi/g
			Cs-134	<7.0e-9	µCi/g
			Cs-137	<7.6e-9	µCi/g
			Fe-59	<1.9e-8	µCi/g
			I-131	<9.4e-9	µCi/g
			K-40	4.72e-6	µCi/g
			La-140	<9.3e-9	µCi/g
			Mn-54	<7.3e-9	µCi/g
			Nb-95	<7.5e-9	µCi/g
			Zn-65	<2.0e-8	µCi/g
			Zr-95	<1.3e-8	µCi/g
9/18/2023	AG56960	063	Ba-140	<2.6e-8	µCi/g
			Be-7	8.34e-7	µCi/g
			Co-58	<7.0e-9	µCi/g
			Co-60	<7.5e-9	µCi/g
			Cs-134	<5.8e-9	µCi/g
			Cs-137	<7.7e-9	µCi/g
			Fe-59	<1.6e-8	µCi/g
			I-131	<8.7e-9	µCi/g
			K-40	4.66e-6	µCi/g
			La-140	<7.1e-9	µCi/g
			Mn-54	<7.2e-9	µCi/g
			Nb-95	<7.4e-9	µCi/g
			Zn-65	<1.7e-8	µCi/g
			Zr-95	<1.3e-8	µCi/g

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/16/2023	AG24833	046	Ba-140	<7.0e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	6.3e-9	µCi/mL
2/6/2023	AG27628	046	Ba-140	<7.6e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.1e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	7.8e-9	µCi/mL
3/15/2023	AG33435	046	Ba-140	<7.0e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<3.1e-9	µCi/mL
			Gross Beta	8.6e-9	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/12/2023	AG36657	046	Ba-140	<6.6e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.1e-9	µCi/mL
			K-40	6.0e-8	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Pb-212	7.9e-9	µCi/mL
			Tl-208	2.9e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	4.8e-8	µCi/mL
5/18/2023	AG41474	046	Ba-140	<7.8e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.9e-9	µCi/mL
			K-40	2.1e-8	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	1.40e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/12/2023	AG44378	046	Ba-140	<7.7e-9	µCi/mL
			Co-58	<2.1e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.7e-9	µCi/mL
			Gross Beta	5.5e-9	µCi/mL
1/16/2023	AG24832	052	Ba-140	<7.4e-9	µCi/mL
			Co-58	<2.1e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			K-40	3.4e-8	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	4.0e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
2/6/2023	AG27627	052	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			K-40	7.4e-8	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.8e-9	µCi/mL
			Zr-95	<3.1e-9	µCi/mL
			Gross Beta	7.1e-8	µCi/mL
3/15/2023	AG33434	052	Ba-140	<8.0e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.2e-9	µCi/mL
			Cs-134	<2.1e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			K-40	4.0e-8	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.7e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	4.11e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/12/2023	AG36656	052	Ba-140	<7.6e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.3e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.6e-9	µCi/mL
			Gross Beta	2.20e-8	µCi/mL
5/18/2023	AG41473	052	Ba-140	<9.4e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<3.3e-9	µCi/mL
			La-140	<3.2e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.3e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.7e-9	µCi/mL
			Gross Beta	1.00e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/12/2023	AG44377	052	Ba-140	<6.8e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.0e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.0e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.1e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	2.08e-8	µCi/mL
7/12/2023	AG48611	052	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	1.7e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<2.9e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			K-40	5.5e-8	µCi/mL
			La-140	<1.9e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.2e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	5.07e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
8/14/2023	AG52706	052	Ba-140	<7.0e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			K-40	1.47e-7	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.9e-9	µCi/mL
			Zr-95	<3.1e-9	µCi/mL
			Gross Beta	1.38e-7	µCi/mL
9/14/2023	AG56702	052	Ba-140	<9.3e-9	µCi/mL
			Co-58	<2.2e-9	µCi/mL
			Co-60	<2.3e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.6e-9	µCi/mL
			I-131	<3.3e-9	µCi/mL
			K-40	1.96e-7	µCi/mL
			La-140	<3.0e-9	µCi/mL
			Mn-54	<2.2e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Zn-65	<4.8e-9	µCi/mL
			Zr-95	<3.6e-9	µCi/mL
			Gross Beta	1.12e-7	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/16/2023	AG60141	052	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<2.9e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			K-40	1.05e-7	µCi/mL
			La-140	<2.0e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.3e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	1.23e-7	µCi/mL
11/6/2023	AG62659	052	Ba-140	<7.9e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.2e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.2e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			K-40	1.10e-7	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	8.6e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/6/2023	AG65982	052	Ba-140	<6.6e-9	µCi/mL
			Bi-214	6.7e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.5e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.1e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			K-40	9.3e-8	µCi/mL
			La-140	<2.1e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Pb-214	1.29e-8	µCi/mL
			Zn-65	<3.3e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	6.0e-8	µCi/mL
7/12/2023	AG48612	054	Ba-140	<7.7e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.3e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.9e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	3.88e-8	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
8/14/2023	AG52707	054	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.2e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	8.9e-9	µCi/mL
9/14/2023	AG56703	054	Ba-140	<7.8e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.9e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.8e-9	µCi/mL
			La-140	<2.9e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.9e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	6.5e-9	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/16/2023	AG60142	054	Ba-140	<7.9e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.0e-9	µCi/mL
			Cs-137	<2.2e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	1.20e-8	µCi/mL
11/6/2023	AG62660	054	Ba-140	<6.8e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<3.9e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	7.2e-9	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/6/2023	AG65983	054	Ba-140	<7.9e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.1e-9	µCi/mL
			Cs-134	<2.2e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Pb-214	1.00e-8	µCi/mL
			Zn-65	<4.5e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	5.8e-9	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Water Composite Samples					
1/13/2023	AG23553	046	H-3	<1.0e-6	µCi/mL
4/25/2023	AG35960	046	H-3	<1.0e-6	µCi/mL
8/3/2023	AG47707	046	H-3	<1.0e-6	µCi/mL
1/13/2023	AG23554	052	H-3	<1.0e-6	µCi/mL
4/25/2023	AG35961	052	H-3	<1.0e-6	µCi/mL
8/3/2023	AG47708	052	H-3	<1.0e-6	µCi/mL
10/27/2023	AG59241	052	H-3	<1.0e-6	µCi/mL
9/27/2023	AG59240	054	H-3	<1.0e-6	µCi/mL

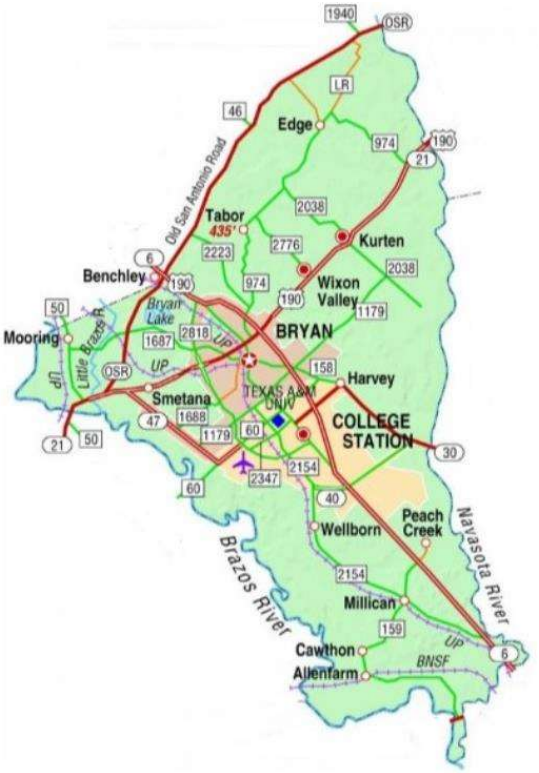
*NOTE: * Indicates the analysis was by alpha spectrometry, or Ra-226, analysis by radon emanation.*
***Indicates the tritium (H-3) analysis for food product, sediment, and vegetation is reported in UCi/ml*

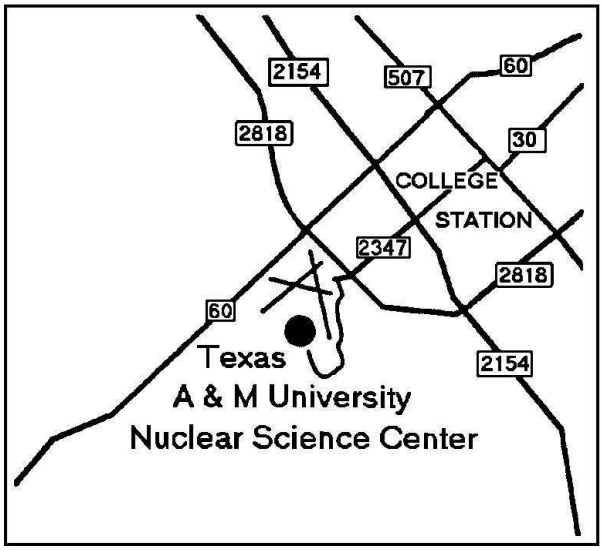
Research Reactors

Texas A & M University Nuclear Science Center
Radiation Branch Site No. 001

Texas A&M Nuclear Science Center (NSC) is located seven miles south of downtown Bryan just south of Easterwood Airport. NSC houses a one-megawatt TRIGA (Testing, Research, Isotope Production, General Atomics) research reactor that came online in 1961. The Radiation Branch Surveillance Program consists of OSL monitoring.

Shaded area indicates location of Brazos County

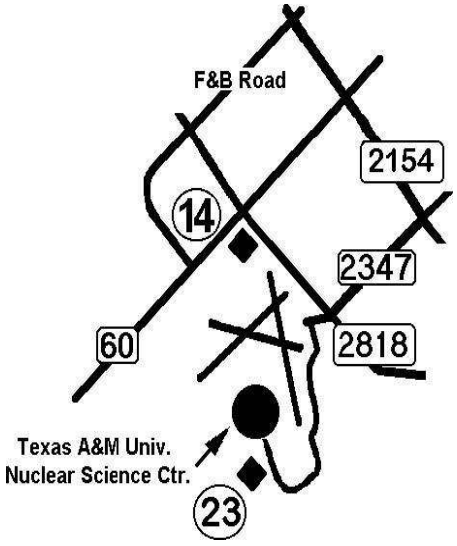




Texas A & M University Nuclear Science Center
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed



Texas A & M Nuclear Science Center
Optically Stimulated Luminescent Dosimeter (OSL) Monitoring Results[1]
(quarterly and annual readings are in mrem)

Site 001 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
2	41	53	56	58	208	
3	34	38	45	45	162	
4	41	44	46	45	176	
5	27	29	37	36	129	
10	27	30	38	34	129	
11	27	28	36	33	124	
14*	26	28	35	34	123	
18	28	31	37	35	131	
19	34	37	33	41	145	
23*	24	28	34	31	117	
24	28	31	38	33	130	

NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

University of Texas Nuclear
Engineering Teaching Laboratory
Radiation Branch Site No. 003

University of Texas Nuclear Engineering Teaching Laboratory (NETL) is located at the J. J. Pickle Research Center, approximately five miles north of the Texas Department of State Health Services main campus. NETL houses an above-ground, fixed-core 1.1 megawatt TRIGA (Testing, Research, Isotope Production, General Atomics) research reactor that came online in 1992. The Radiation Branch Surveillance Program consists of sampling sewage and water and OSL monitoring.

Shaded area indicates location of Travis County

University of Texas Nuclear Engineering Teaching Laboratory
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed

University of Texas Nuclear Engineering Teaching Laboratory

Optically Stimulated Luminescent Dosimeter (OSL) Monitoring Results[1]
(quarterly and annual readings are in mrem)

Site 003 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	24	27	31	0	82	Q4 OSL not found
2	26	30	35	30	121	
3	25	29	34	30	118	
4	28	30	37	33	128	
5	25	30	35	30	120	
20*	24	29	33	29	115	

NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

Other Facilities

Gammatron, Inc.
Radiation Branch Site No. 018

Gammatron, Inc. is a manufacturer of sealed radioactive sources. The facility is located in an industrial area of Houston approximately four miles northwest of William P. Hobby Airport. The Radiation Branch Surveillance Program consists of OSL monitoring.

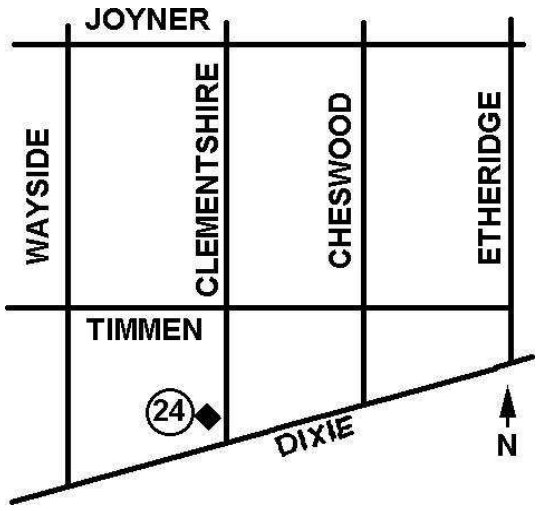
Shaded area indicates location of Harris County

Harris County

Gammatron, Inc.
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed



Gammatron, Inc.

Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

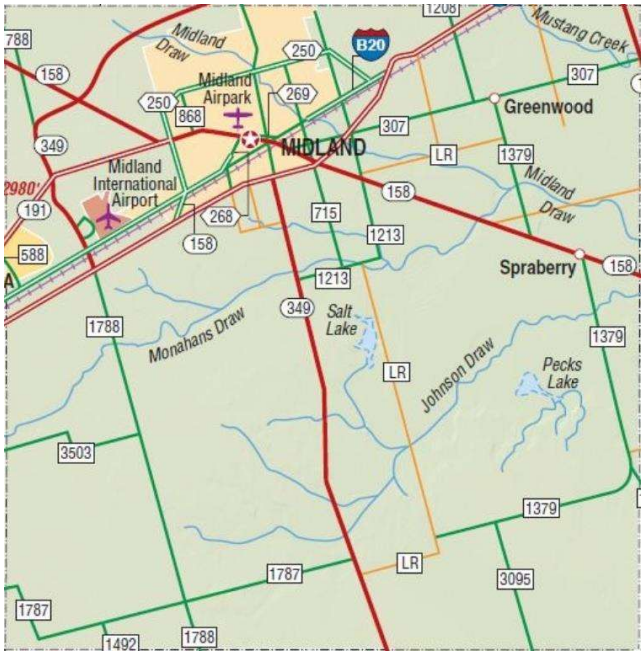
Site 018 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
3	93	68	71	138	370	
5	591	484	682	1284	3041	
8	399	0	294	360	1053	Q2 OSL not found
27*	24	27	32	33	116	
30	86	65	92	107	350	
31	61	62	114	160	397	
34	218	179	173	231	801	
40	122	60	129	170	481	

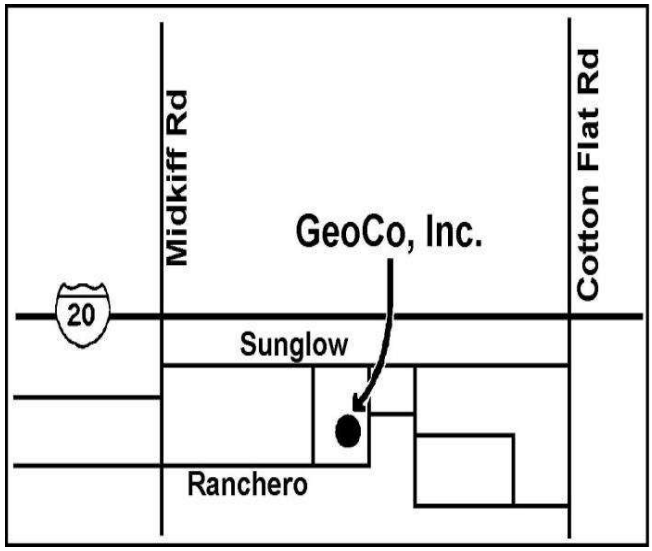
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

GeoCo, Inc.
Radiation Branch Site No. 051

GeoCo, Inc. is a tracer studies company specializing in oil and gas wells. The facility is located in Midland approximately six miles east of Midland-Odessa International Airport. The Radiation Branch Surveillance Program consists of OSL monitoring.

Shaded area indicates location of Midland County





GeoCo, Inc.
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed

GeoCo, Inc.

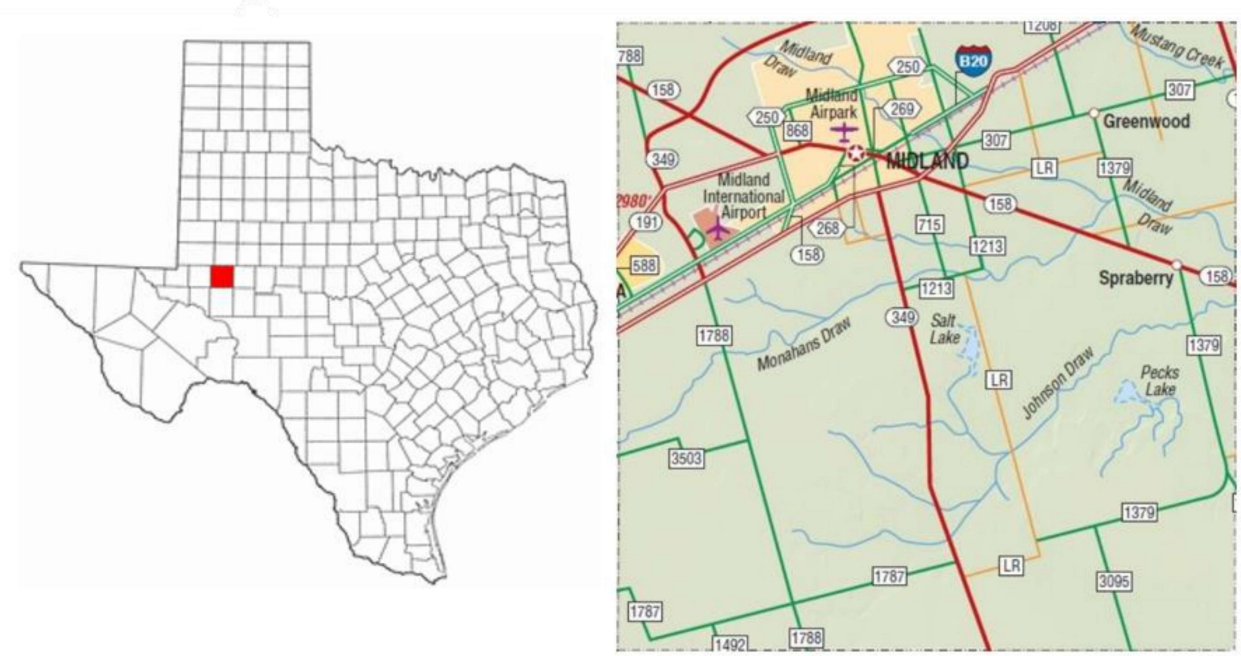
Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

Site 051 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	29	34	38	39	140	
8	28	31	35	63	157	

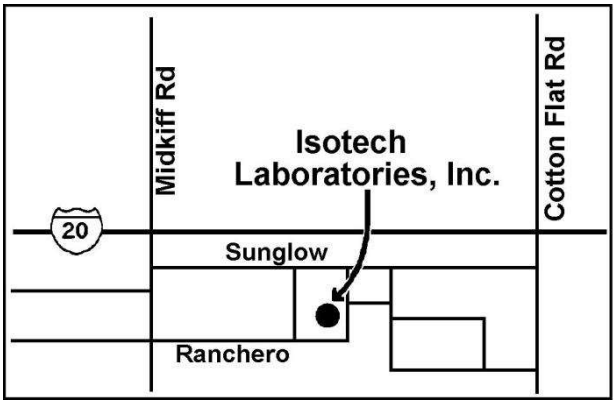
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

Isotech Laboratories, Inc.
Radiation Branch Site No. 008

Isotech Laboratories, Inc. manufactures tracer material for the oil and gas industry, calibrates radiation detection instruments, and provides radiation safety training for well-logging and tracer services. The facility is located in Midland approximately six miles east of Midland-Odessa International Airport. The Radiation Branch Surveillance Program consists of OSL monitoring.



Shaded area indicates location of Midland County



Isotech Laboratories, Inc.
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed

Isotech Laboratories, Inc.

Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

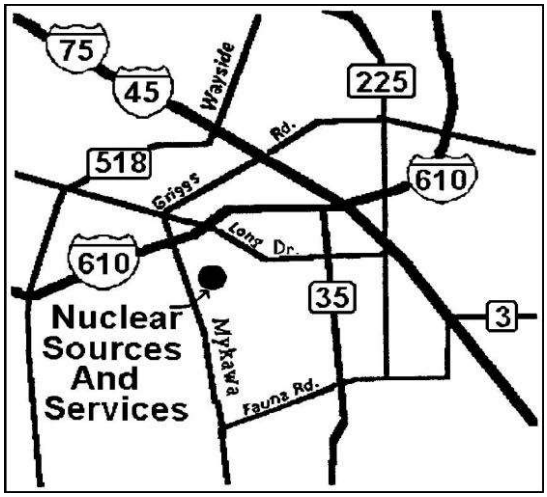
Site 008 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	30	32	37	28	127	
2	40	42	51	37	170	
3	31	36	41	33	141	
4	36	43	52	38	169	
6	33	41	51	37	162	
8*	30	31	37	28	126	

NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

Nuclear Sources and Services, Inc.
Radiation Branch Site No. 023

The Nuclear Sources and Services, Inc. (NSSI) facility occupies approximately five acres in a light industrial area of Southeast Houston approximately four miles northwest of William P. Hobby Airport. The primary activities of NSSI currently are waste treatment, storage, and disposal of radioactive and chemical hazardous materials. NSSI receives wastes from a variety of off-site generators both inside and outside of Texas. At the conclusion of treatment or storage, the residues are shipped to permitted off-site facilities for disposal. The Radiation Branch Surveillance Program consists of soil sampling and OSL monitoring.

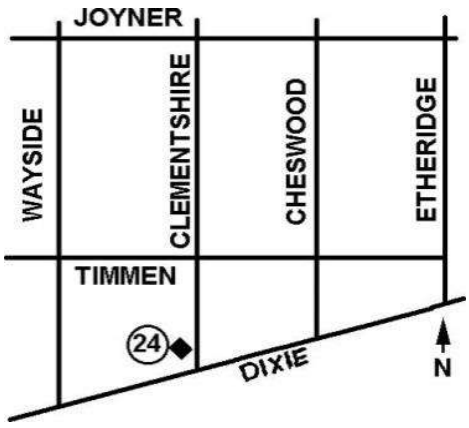
Shaded area indicates location of Harris County



Nuclear Sources and Services, Inc.
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed



Nuclear Sources and Services, Inc.

Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

Site 023 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
3	111	89	59	138	397	
4	37	40	49	76	202	
6	34	0	40	8	82	QTR 2 OSL Not Found
7	36	41	47	9	133	
11	30	34	41	43	148	
12	64	82	46	104	296	
16	37	43	78	41	199	
18	41	47	45	63	196	
19	69	83	49	46	247	
20	33	114	338	430	915	
21	85	61	71	185	402	
22	25	0	35	0	60	QTR 2 & 4 OSL Not Found
23	27	35	59	6	127	
24*	24	27	32	0	83	QTR 4 OSL Not Found
25	32	0	43	8	83	QTR 2 OSL Not Found
41	75	115	57	162	409	

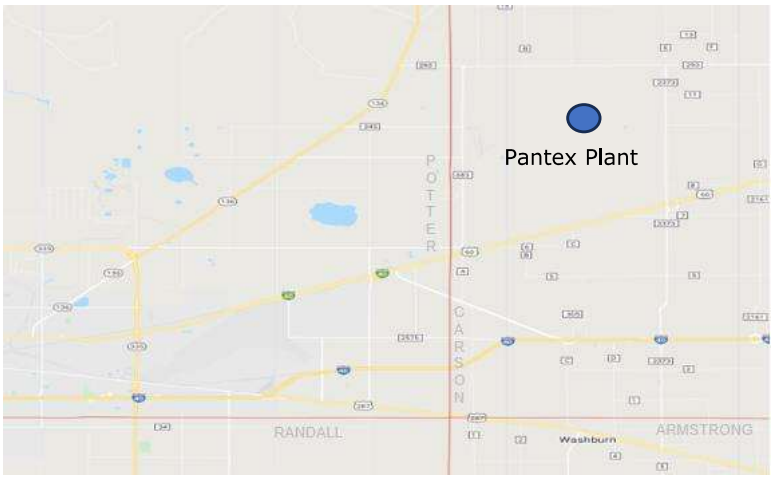
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

Pantex
Radiation Branch Site No. 005

The Pantex plant site is located in Carson County in the Texas Panhandle, north of U.S. Highway 60. The plant is located 17 miles (27 kilometers) northeast of downtown Amarillo. It is centered on a 18,000-acre site. The Pantex facility consists of 11,703 acres of United States Department of Energy (USDOE) owned land and 5,800 acres of land leased from Texas Tech University used as a safety and security buffer zone. The buffer area is managed by Texas Tech Research Farm and is used as rangeland and farmland. An additional 1,080 acres northwest of the plant is called Pantex Lake. Pantex Lake was formally used as the receiving area for treated wastewater discharges and is now managed by Texas Tech University. An additional 7,926 acres to the east of the plant is USDOE-owned and is used for agricultural purposes through a cooperative agreement.

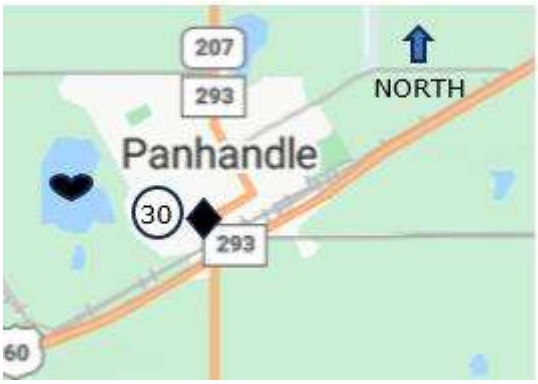
The Radiation Branch Surveillance Program consists of OSL monitoring and sampling air, food products, sediment, soil, vegetation, and water. Analysis of samples is performed to determine the presence of any special nuclear material.

Shaded area indicates location of Carson County



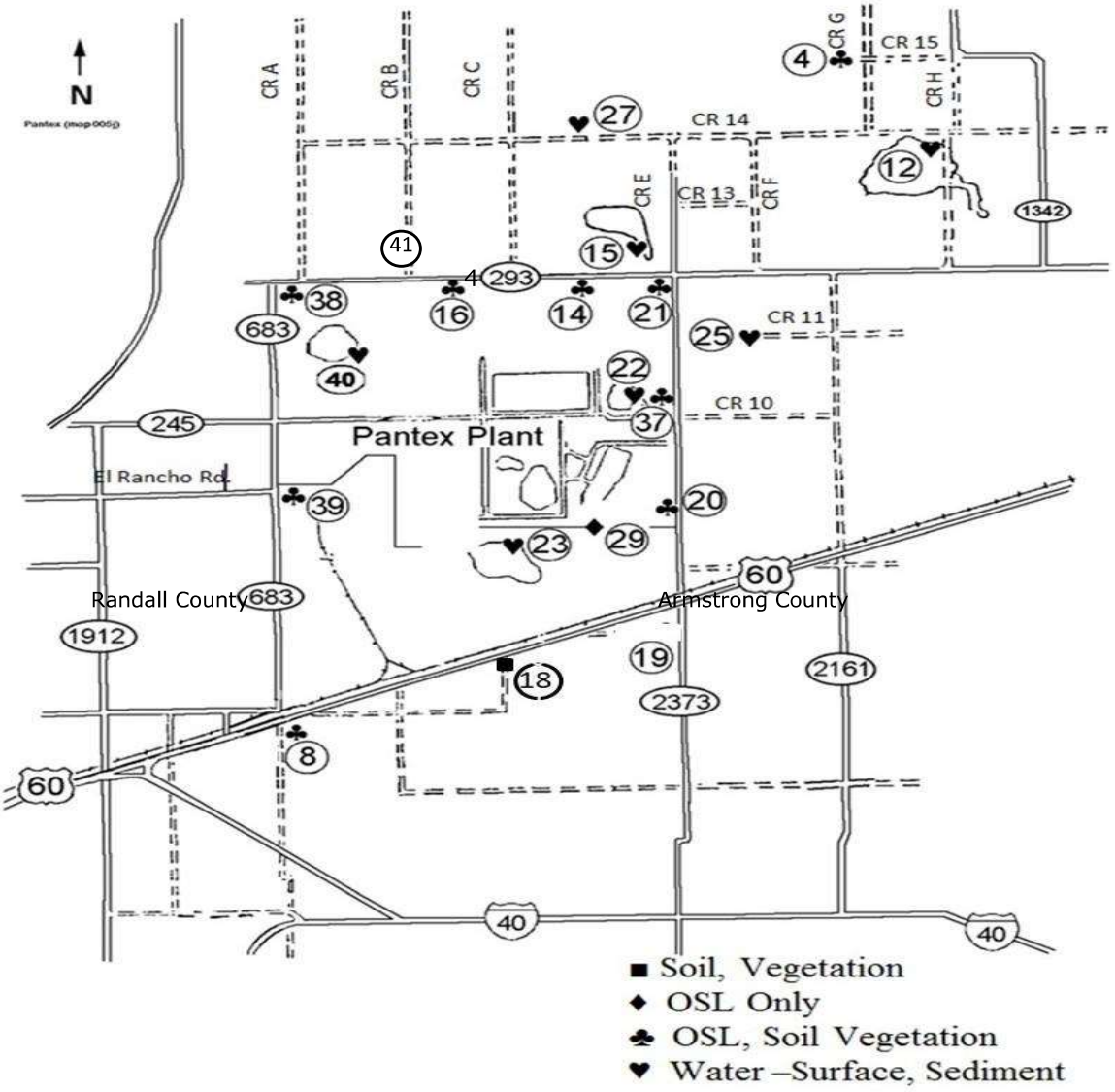
Pantex
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station



Pantex
Monitoring Station Locations

Homeland Security -Diagram Removed



Pantex
Environmental Sample Results

Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

Site 005 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
4	36	47	44	46	173	
8	34	47	42	46	169	
14	36	49	44	46	175	
16	35	45	43	51	174	
19	36	44	45	0	125	QTR 4 OSL Not Found
20	37	44	46	45	172	
21	34	44	41	47	166	
24*	32	43	40	44	159	
29	36	44	45	48	173	
37	38	46	45	50	179	
38	33	43	44	47	167	
39	35	43	43	49	170	
41	308	209	104	69	690	
42	33	42	41	40	156	

NOTE: [1]*Background is not subtracted from the data*
[2]*An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.*

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
7/12/2023	AG48327	025	Be-7	3.94e-6	µCi/g
			K-40	2.78e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59255	025	Be-7	1.48e-6	µCi/g
			Bi-214	2.26e-7	µCi/g
			K-40	1.71e-5	µCi/g
			Pb-212	3.65e-7	µCi/g
			Pb-214	1.98e-7	µCi/g
			Tl-208	9.0e-8	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
4/12/2023	AG36801	015	Cs-137	2.59e-7	µCi/g
			K-40	1.99e-5	µCi/g
			Pb-212	1.98e-6	µCi/g
			Pb-214	8.9e-7	µCi/g
			Tl-208	4.20e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.44e-6	µCi/g
			Uranium-234	1.38e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.03e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
6/27/2023	AG46336	015	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-9	µCi/mL
			Uranium-234	<1.0e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL
7/12/2023	AG48322	018	K-40	1.65e-5	µCi/g
			Pb-212	1.05e-6	µCi/g
			Pb-214	9.9e-7	µCi/g
			Tl-208	4.08e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23904	022	K-40	1.37e-5	µCi/g
			Pb-212	7.9e-7	µCi/g
			Pb-214	8.3e-7	µCi/g
			Tl-208	2.52e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
4/12/2023	AG36803	004	Cs-137	3.27e-7	µCi/g
			K-40	1.65e-5	µCi/g
			Pb-212	1.73e-6	µCi/g
			Pb-214	8.3e-7	µCi/g
			Tl-208	3.74e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59259	004	K-40	1.66e-5	µCi/g
			Pb-212	8.4e-7	µCi/g
			Pb-214	7.7e-7	µCi/g
			Tl-208	3.98e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.03e-6	µCi/g
			Uranium-234	1.03e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
7/12/2023	AG36806	008	K-40	1.53e-5	µCi/g
			Pb-212	9.1e-7	µCi/g
			Pb-214	8.0e-7	µCi/g
			Tl-208	3.44e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59263	008	K-40	1.65e-5	µCi/g
			Pb-212	1.70e-6	µCi/g
			Tl-208	4.0e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.05e-6	µCi/g
			Uranium-234	1.06e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
1/11/2023	AG23902	014	Bi-214	8.21e-7	µCi/g
			Cs-137	1.59e-7	µCi/g
			K-40	1.98e-5	µCi/g
			Pb-212	1.07e-6	µCi/g
			Pb-214	9.00e-7	µCi/g
			Tl-208	4.27e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.03e-6	µCi/g
7/12/2023	AG48318	014	Cs-137	1.18e-7	µCi/g
			K-40	1.95e-5	µCi/g
			Pb-212	1.89e-6	µCi/g
			Pb-214	9.8e-7	µCi/g
			Tl-208	4.9e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36804	016	Cs-137	2.44e-7	µCi/g
			K-40	1.64e-5	µCi/g
			Pb-212	1.08e-6	µCi/g
			Pb-214	9.0e-7	µCi/g
			Tl-208	3.80e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.20e-6	µCi/g
			Uranium-234	1.06e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.12e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
10/11/2023	AG59262	016	K-40	1.80e-5	µCi/g
			Pb-212	9.6e-7	µCi/g
			Pb-214	1.08e-6	µCi/g
			Tl-208	5.43e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23903	018	Bi-212	1.37e-6	µCi/g
			Bi-214	7.45e-7	µCi/g
			K-40	1.75e-5	µCi/g
			Pb-212	1.45e-6	µCi/g
			Pb-214	8.46e-7	µCi/g
			Tl-208	3.35e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36805	019	Bi-212	1.32e-6	µCi/g
			K-40	1.56e-5	µCi/g
			Pb-212	1.06e-6	µCi/g
			Pb-214	8.7e-7	µCi/g
			Tl-208	3.45e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
10/11/2023	AG59261	019	Bi-212	1.28e-6	µCi/g
			Bi-214	8.19e-7	µCi/g
			Cs-137	6.2e-8	µCi/g
			K-40	2.05e-5	µCi/g
			Pb-212	1.07e-6	µCi/g
			Pb-214	8.74e-7	µCi/g
			Tl-208	4.09e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23900	020	Bi-214	8.6e-7	µCi/g
			K-40	1.55e-5	µCi/g
			Pb-212	9.2e-7	µCi/g
			Tl-208	3.94e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
7/12/2023	AG48320	020	K-40	1.74e-5	µCi/g
			Pb-212	9.6e-7	µCi/g
			Pb-214	8.4e-7	µCi/g
			Tl-208	3.91e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
4/12/2023	AG36802	021	Cs-137	1.13e-7	µCi/g
			K-40	1.54e-5	µCi/g
			Pb-212	1.10e-6	µCi/g
			Pb-214	5.99e-7	µCi/g
			Tl-208	2.56e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59260	021	K-40	1.62e-5	µCi/g
			Pb-212	1.24e-6	µCi/g
			Pb-214	8.8e-7	µCi/g
			Tl-208	3.52e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23899	037	K-40	1.70e-5	µCi/g
			Pb-212	9.0e-7	µCi/g
			Pb-214	9.3e-7	µCi/g
			Tl-208	3.87e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
7/12/2023	AG48321	037	Be-7	5.8e-7	µCi/g
			K-40	1.48e-5	µCi/g
			Pb-212	7.63e-7	µCi/g
			Pb-214	6.56e-7	µCi/g
			Tl-208	2.96e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36807	038	Bi-212	1.19e-6	µCi/g
			Bi-214	9.09e-7	µCi/g
			Cs-137	1.32e-7	µCi/g
			K-40	1.79e-5	µCi/g
			Pb-212	1.56e-6	µCi/g
			Pb-214	9.22e-7	µCi/g
			Tl-208	4.31e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.14e-6	µCi/g
			Uranium-234	1.08e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59264	038	Bi-214	9.60e-7	µCi/g
			K-40	1.98e-5	µCi/g
			Pb-212	1.17e-6	µCi/g
			Pb-214	9.44e-7	µCi/g
			Tl-208	3.89e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.12e-6	µCi/g
			Uranium-234	1.22e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
1/11/2023	AG23901	039	K-40	1.77e-5	µCi/g
			Pb-212	1.13e-6	µCi/g
			Pb-214	8.1e-7	µCi/g
			Tl-208	3.79e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
7/12/2023	AG48319	039	K-40	1.73e-5	µCi/g
			Pb-212	1.06e-6	µCi/g
			Tl-208	3.83e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
7/12/2023	AG48324	037	Be-7	8.59e-6	µCi/g
			K-40	1.83e-5	µCi/g
			Pb-212	1.10e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/12/2023	AG36811	004	Be-7	6.94e-6	µCi/g
			K-40	5.81e-6	µCi/g
			Pb-212	2.26e-7	µCi/g
			Tl-208	6.9e-8	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59252	004	Be-7	4.11e-6	µCi/g
			Bi-212	3.29e-6	µCi/g
			K-40	3.49e-5	µCi/g
			Pb-212	3.19e-6	µCi/g
			Tl-208	1.134e-6	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59258	021	Be-7	2.37e-6	µCi/g
			K-40	3.22e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36815	008	Be-7	6.11e-6	µCi/g
			K-40	5.03e-6	µCi/g
			Pb-212	1.06e-7	µCi/g
			Tl-208	3.4e-8	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
10/11/2023	AG59254	008	Be-7	7.45e-6	µCi/g
			Bi-212	8.9e-7	µCi/g
			K-40	8.75e-6	µCi/g
			Pb-212	5.03e-7	µCi/g
			Tl-208	1.73e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23895	014	Be-7	1.065e-5	µCi/g
			K-40	5.01e-6	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
7/12/2023	AG48325	014	Be-7	4.90e-6	µCi/g
			K-40	2.66e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59254	008	Be-7	7.45e-6	µCi/g
			Bi-212	8.9e-7	µCi/g
			K-40	8.75e-6	µCi/g
			Pb-212	5.03e-7	µCi/g
			Tl-208	1.73e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
10/11/2023	AG59253	015	Be-7	1.67e-6	µCi/g
			Bi-212	1.68e-6	µCi/g
			K-40	1.89e-5	µCi/g
			Pb-212	1.46e-6	µCi/g
			Tl-208	5.58e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36812	016	Be-7	1.92e-6	µCi/g
			K-40	1.155e-5	µCi/g
			Pb-212	7.8e-8	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23897	018	Be-7	8.55e-6	µCi/g
			Bi-214	9.8e-8	µCi/g
			K-40	3.10e-6	µCi/g
			Pb-212	7.6e-8	µCi/g
			Pb-214	1.10e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
7/12/2023	AG48328	018	Be-7	5.34e-6	µCi/g
			K-40	2.85e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36813	019	Be-7	6.89e-6	µCi/g
			K-40	6.51e-6	µCi/g
			Pb-212	1.03e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
10/11/2023	AG59257	019	Be-7	4.13e-6	µCi/g
			Bi-214	1.55e-7	µCi/g
			K-40	2.00e-5	µCi/g
			Pb-212	1.07e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23898	020	Be-7	6.23e-6	µCi/g
			K-40	9.50e-6	µCi/g
			Pb-212	3.28e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
7/12/2023	AG48326	020	Be-7	7.41e-6	µCi/g
			K-40	4.48e-5	µCi/g
			Pb-212	1.47e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36814	021	Be-7	4.05e-6	µCi/g
			K-40	2.14e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23894	037	Be-7	1.040e-5	µCi/g
			K-40	5.74e-6	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
4/12/2023	AG36816	038	Be-7	7.63e-6	µCi/g
			K-40	6.86e-6	µCi/g
			Pb-212	9.5e-8	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
10/11/2023	AG59256	038	Be-7	4.14e-6	µCi/g
			K-40	2.48e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/11/2023	AG23896	039	Be-7	6.78e-6	µCi/g
			K-40	4.49e-6	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
7/12/2023	AG48323	039	Be-7	5.57e-6	µCi/g
			K-40	2.48e-5	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/11/2023	AG23905	022	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-9	µCi/mL
			Uranium-234	1.17e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL
6/27/2023	AG46334	023	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-9	µCi/mL
			Uranium-234	<1.0e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL
1/10/2023	AG23907	024	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	8.7e-9	µCi/mL
			Uranium-234	6.8e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.75e-9	µCi/mL
4/11/2023	AG36809	024	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	6.4e-9	µCi/mL
			Uranium-234	4.07e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	2.10e-9	µCi/mL
7/11/2023	AG48330	024	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	6.1e-9	µCi/mL
			Uranium-234	4.20e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.62e-9	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/10/2023	AG59265	024	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	6.0e-9	µCi/mL
			Uranium-234	4.09e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.63e-9	µCi/mL
6/27/2023	AG46335	040	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	<2.0e-9	µCi/mL
			Uranium-234	<1.0e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Water Ground Samples					
1/10/2023	AG23908	027	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	4.2e-9	µCi/mL
			Uranium-234	3.10e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL
4/11/2023	AG36810	027	Bi-214	9.3e-9	µCi/mL
			Pb-214	8.2e-9	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.8e-9	µCi/mL
			Uranium-234	3.86e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.86e-9	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
7/11/2023	AG48329	027	Bi-214	3.36e-8	µCi/mL
			Pb-214	3.39e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.4e-9	µCi/mL
			Uranium-234	3.32e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	2.01e-9	µCi/mL
10/10/2023	AG59266	027	Bi-214	5.23e-8	µCi/mL
			Pb-214	4.83e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.1e-9	µCi/mL
			Uranium-234	3.88e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.16e-9	µCi/mL
1/10/2023	AG23906	030	Bi-214	6.43e-8	µCi/mL
			Pb-214	6.41e-8	µCi/mL
			Tl-208	9.6e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	7.4e-9	µCi/mL
			Uranium-234	5.4e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.96e-9	µCi/mL
4/11/2023	AG36808	030	Pb-214	1.40e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	8.2e-9	µCi/mL
			Uranium-234	5.3e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL

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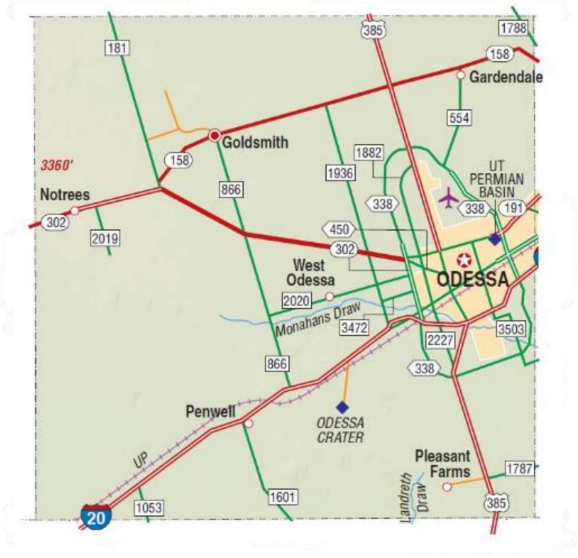
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
7/11/2023	AG48331	030	Bi-214	2.36e-8	µCi/mL
			Pb-214	2.57e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.5e-9	µCi/mL
			Uranium-234	3.66e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.72e-9	µCi/mL
10/10/2023	AG59267	030	Bi-214	5.93e-8	µCi/mL
			Pb-214	5.58e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	7.2e-9	µCi/mL
			Uranium-234	5.2e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.94e-9	µCi/mL

*NOTE: * indicates the analysis was by alpha spectrometry, or Ra-226, analysis by radon emanation.*
***Indicates the tritium (H-3) analysis for food product, sediment, and vegetation is reported in UCi/ml*

Radiation Technology, Inc.
Radiation Branch Site No. 050

Radiation Technology, Inc. (RTI), located six miles north of downtown Odessa, provides installation, repair, and maintenance of nuclear gauging devices and services for loading and unloading radioactive sources in nuclear gauges. The Radiation Branch Surveillance Program consists of OSL monitoring.



Shaded area indicates location of Ector County

Radiation Technology, Inc.
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed

Radiation Technology, Inc.

Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

Site 050 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	29	33	43	38	143	
2	31	33	108	57	229	
3	30	33	37	56	156	
4	27	31	0	34	92	QTR 3 OSL Not Found
8*	28	30	35	63	156	

NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

Trace Life Sciences

Radiation Branch Site No. 055 & 056

U.S. Radiopharmaceuticals, formerly Trace Life Sciences, has two sites located in Denton Texas, which consists of a medical radioisotope production facility which also stores contaminated accelerator parts. The Radiation Branch surveillance program consists of OSL monitoring.

Shaded area indicates location of Denton County

Trace Life Sciences
Monitoring Station Locations

♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

Homeland Security -Diagram Removed

Trace Life Sciences
Optically Stimulated Luminescence (OSL) Monitoring Results and Environmental Sampling Results (quarterly and annual readings are in mrem)

Site 55 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	25	25	31	29	110	
2	25	27	32	31	115	
3	24	26	33	0	83	QTR 4 OSL Not Found
4	24	26	32	30	112	
6*	27	30	33	34	124	

Site 56 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	0	28	34	34	96	Q1 OSL Not Found
2	26	29	35	37	127	
3	24	27	33	31	115	

NOTE: [1]*Background is not subtracted from the data*
[2]*An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.*

Appendices

MAPEP Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP Series 26

(TDHL01) Texas Department of State Health Services Laboratory
1100 W 49th Street
Austin, TX 78756

MAPEP-12-MaS26: Radiological and inorganic combined soil standard

Inorganic

Units: (mg/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Arsenic	NR	48.2				33.7 - 62.7		
Barium	NR	655				459 - 852		
Beryllium	NR	47.5				33.3 - 61.8		
Cadmium	NR	10.6				7.4 - 13.8		
Chromium	NR	89.3				62.5 - 116.1		
Cobalt	NR	113				79 - 147		
Copper	NR	206				144 - 268		
Lead	NR	74.4				52.1 - 96.7		
Mercury	NR	0.0733				0.0513 - 0.0953		
Nickel	NR	186				130 - 242		
Selenium	NR	14.2				9.9 - 18.5		
Silver	NR	85.5				59.9 - 111.2		
Technetium-99	NR	0.000596				0.000417 - 0.000775		
Thallium	NR	14.4				10.1 - 18.7		
Uranium-235	NR	0.0653				0.0457 - 0.0849		
Uranium-238	NR	26.5				18.6 - 34.5		
Uranium-Total	NR	26.5				18.6 - 34.5		
Vanadium	NR	104				73 - 135		
Zinc	NR	286				200 - 372		

Radiological

Units: (Bq/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	145	159	A		-8.8	111 - 207	9	
Cesium-134	748	828	A		-9.7	580 - 1076	10	L
Cesium-137	2.15		A			False Positive Test	2.15	
Cobalt-57	1160	1179	A		-1.6	825 - 1533	20	L
Cobalt-60	0.93	1.56	A	(17)		Sensitivity Evaluation	0.93	
Iron-55	NR	1370				959 - 1781		
Manganese-54	578	558	A		3.6	391 - 725	14	L
Nickel-63	NR	862				603 - 1121		
Plutonium-238	128	136	A		-5.9	95 - 177	12	
Plutonium-239/240	59.0	65.8	A		-10.3	46.1 - 85.5	6.5	
Potassium-40	1520	1491	A		1.9	1044 - 1938	40	L
Strontium-90	414	392	A		5.6	274 - 510	20	
Technetium-99	NR	374				262 - 486		

Radiological

Units: (Bq/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-234/233	61.8	68.1	A		-9.3	47.7 - 88.5	5.2	
Uranium-238	326	329	A		-0.9	230 - 428	23	
Zinc-65	682	642	A		6.2	449 - 835	17	L

Radiological Reference Date: February 1, 2012

MAPEP-12-MaW26: Radiological and inorganic combined water standard

Inorganic

Units: (mg/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	2.71				1.90 - 3.52		
Arsenic	NR	<0.01				False Positive Test		
Barium	NR	0.808				0.566 - 1.050		
Beryllium	NR	0.808				0.566 - 1.050		
Cadmium	NR	0.418				0.293 - 0.543		
Chromium	NR	1.73				1.21 - 2.25		
Cobalt	NR	1.45				1.02 - 1.89		
Copper	NR	0.929				0.650 - 1.208		
Lead	NR	0.779				0.545 - 1.013		
Mercury	NR	3.75E-3				0.00263 - 0.00488		
Nickel	NR	<0.01				False Positive Test		
Selenium	NR	0.223				0.156 - 0.290		
Technetium-99	NR	4.45E-5				0.00003 - 0.00006		
Thallium	NR	0.846				0.592 - 1.100		
Uranium-235	NR	4.50E-4				0.00032 - 0.00059		
Uranium-238	NR	0.222				0.155 - 0.289		
Uranium-Total	NR	0.222				0.155 - 0.289		
Vanadium	NR	1.44				1.01 - 1.87		
Zinc	NR	2.28				1.60 - 2.96		

Radiological

Units: (Bq/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.62	1.63	A		-0.6	1.14 - 2.12	0.10	
Cesium-134	-0.20		A			False Positive Test	0.20	
Cesium-137	42.0	39.9	A		5.3	27.9 - 51.9	1.2	L
Cobalt-57	33.8	32.9	A		2.7	23.0 - 42.8	0.8	L
Cobalt-60	24.9	23.72	A		5.0	16.60 - 30.84	0.5	L
Hydrogen-3	441	437	A		0.9	306 - 568	11	L
Iron-55	NR	81.9				57.3 - 106.5		
Manganese-54	33.4	31.8	A		5.0	22.3 - 41.3	0.9	L
Nickel-63	NR	60.0				42.0 - 78.0		
Plutonium-238	0.581	0.629	A		-7.6	0.440 - 0.818	0.058	
Plutonium-239/240	1.14	1.34	A		-14.9	0.94 - 1.74	0.10	
Potassium-40	151	142	A		6.3	99 - 185	5	

Radiological — Units: (Bq/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Strontium-90	-0.012		A			False Positive Test	0.036	
Technetium-99	NR	27.9				19.5 - 36.3		
Uranium-234/233	0.371	0.392	A		-5.4	0.274 - 0.510	.039	
Uranium-238	2.95	2.76	A		6.9	1.93 - 3.59	0.21	
Zinc-65	-0.170		A			False Positive Test	0.170	

Radiological Reference Date: February 1, 2012

MAPEP-12-GrW26: Gross alpha/beta water

Radiological — Units: (Bq/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	1.70	2.14	A		-20.6	0.64 - 3.64	0.07	
Gross beta	6.12	6.36	A		-3.8	3.18 - 9.54	0.12	L

Radiological Reference Date: February 1, 2012

MAPEP-12-RdF26: Radiological air filter

Inorganic — Units: (ug/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0187				0.0131 - 0.0243		
Uranium-238	NR	10.0				7.0 - 13.0		
Uranium-Total	NR	10.0				7.0 - 13.0		

Radiological — Units: (Bq/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.073	0.073	A		0.0	0.051 - 0.095	0.007	
Cesium-134	2.14	2.38	A		-10.1	1.67 - 3.09	0.04	L
Cesium-137	1.94	1.79	A		8.4	1.25 - 2.33	0.08	
Cobalt-57	0.027		A			False Positive Test	0.027	
Cobalt-60	2.25	2.182	A		3.1	1.527 - 2.837	0.06	L
Manganese-54	3.51	3.24	A		8.3	2.27 - 4.21	0.10	L
Plutonium-238	0.001	0.0015	A	(17)		Sensitivity Evaluation	0.001	
Plutonium-239/240	0.104	0.097	A		7.2	0.068 - 0.126	0.012	
Strontium-90	0.013		A			False Positive Test	0.008	
Uranium-234/233	0.019	0.0188	A		1.1	0.0132 - 0.0244	0.004	H
Uranium-238	0.131	0.124	A		5.6	0.087 - 0.161	0.013	
Zinc-65	3.19	2.99	A		6.7	2.09 - 3.89	0.13	

Radiological Reference Date: February 1, 2012

MAPEP-12-GrF26: Gross alpha/beta air filter

Radiological

Units: (Bq/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.759	1.2	A		-36.8	0.4 - 2.0	0.024	
Gross beta	2.25	2.4	A		-6.3	1.2 - 3.6	0.03	L

Radiological Reference Date: February 1, 2012

MAPEP-12-RdV26: Radiological vegetation

Inorganic

Units: (ug/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0434				0.0304 - 0.0564		
Uranium-238	NR	22.4				15.7 - 29.1		
Uranium-Total	NR	22.4				15.7 - 29.1		

Radiological

Units: (Bq/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.007		N	(1)		False Positive Test	0.002	
Cesium-134	9.84	8.43	A		16.7	5.90 - 10.96	0.17	L
Cesium-137	-0.064		A			False Positive Test	0.064	
Cobalt-57	15.4	12.0	W		28.3	8.4 - 15.6	0.4	L
Cobalt-60	6.69	6.05	A		10.6	4.24 - 7.87	0.17	L
Manganese-54	0.009		A			False Positive Test	0.009	
Plutonium-238	0.179	0.219	A		-18.3	0.153 - 0.285	0.021	
Plutonium-239/240	0.148	0.152	A		-2.6	0.106 - 0.198	0.018	
Strontium-90	1.98	2.11	A		-6.2	1.48 - 2.74	0.04	L
Uranium-234/233	0.086	0.0411	N		109.2	0.0288 - 0.0534	0.011	
Uranium-238	0.307	0.278	A		10.4	0.195 - 0.361	0.026	
Zinc-65	9.60	8.90	A		7.9	6.23 - 11.57	0.42	

Radiological Reference Date: February 1, 2012

Notes:

(1) = False Positive
(17) = NOT DETECTED - reported a statistically zero result

MAPEP Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP Series 27

(TDHL01) Texas Department of State Health Services Laboratory
1100 W 49th Street
Austin, TX 78756

MAPEP-12-MaS27: Radiological and inorganic combined soil standard

Inorganic

Units: (mg/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	111.5				78.1 - 145.0		
Arsenic	NR	55.7				39.0 - 72.4		
Barium	NR	896				627 - 1165		
Beryllium	NR	47.0				32.9 - 61.1		
Cadmium	NR	15.4				10.8 - 20.0		
Chromium	NR	99.0				69.3 - 128.7		
Cobalt	NR	127				89 - 165		
Copper	NR	204				143 - 265		
Lead	NR	97.6				68.3 - 126.9		
Mercury	NR	0.172				0.120 - 0.224		
Nickel	NR	300				210 - 390		
Selenium	NR	17.7				12.4 - 23.0		
Silver	NR	95.5				66.9 - 124.2		
Technetium-99	NR	0.000748				0.000524 - 0.000972		
Thallium	NR	91.0				63.7 - 118.3		
Uranium-235	NR	0.0533				0.0373 - 0.0693		
Uranium-238	NR	21.1				14.8 - 27.4		
Uranium-Total	NR	21.2				14.8 - 27.6		
Vanadium	NR	271				190 - 352		
Zinc	NR	549				384 - 714		

Radiological

Units: (Bq/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	106	111	A		-4.5	78 - 144	8	
Cesium-134	896	939	A		-4.6	657 - 1221	11	L
Cesium-137	1106	1150	A		-3.8	805 - 1495	31	L
Cobalt-57	1246	1316	A		-5.3	921 - 1711	26	L
Cobalt-60	520	531	A		-2.1	372 - 690	9	L
Iron-55	NR	508				356 - 660		
Manganese-54	911	920	A		-1.0	644 - 1196	22	L
Nickel-63	NR	406				284 - 528		
Plutonium-238	91.3	105.8	A		-13.7	74.1 - 137.5	8.7	
Plutonium-239/240	117	134	A		-12.7	94 - 174	11	
Potassium-40	625	632	A		-1.1	442 - 822	19	
Strontium-90	565	508	A		11.2	356 - 660	21	

Radiological

Units: (Bq/kg)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Technetium-99	NR	469				328 - 610		
Uranium-234/233	59	60.3	A		-2.2	42.2 - 78.4	5	
Uranium-238	248	263	A		-5.7	184 - 342	17	
Zinc-65	625	606	A		3.1	424 - 788	15	L

Radiological Reference Date: August 1, 2012

MAPEP-12-MaW27: Radiological and inorganic combined water standard

Inorganic

Units: (mg/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Antimony	NR	3.38				2.37 - 4.39		
Arsenic	NR	1.13				0.79 - 1.47		
Barium	NR	4.00				2.80 - 5.20		
Beryllium	NR					False Positive Test		
Cadmium	NR	0.506				0.354 - 0.658		
Chromium	NR	0.561				0.393 - 0.729		
Cobalt	NR	3.11				2.18 - 4.04		
Copper	NR					False Positive Test		
Lead	NR	2.06				1.44 - 2.68		
Mercury	NR	0.00349				0.00244 - 0.00454		
Nickel	NR	3.99				2.79 - 5.19		
Selenium	NR					False Positive Test		
Technetium-99	NR	7.30E-06				0.000005 - 0.000009		
Thallium	NR	2.47				1.73 - 3.21		
Uranium-235	NR	0.00052				0.00036 - 0.00068		
Uranium-238	NR	0.268				0.188 - 0.348		
Uranium-Total	NR	0.268				0.188 - 0.348		
Vanadium	NR	1.59				1.11 - 2.07		
Zinc	NR	3.27				2.29 - 4.25		

Radiological

Units: (Bq/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.02	1.06	A		-3.8	0.74 - 1.38	0.08	
Cesium-134	22.5	23.2	A		-3.0	16.2 - 30.2	0.3	L
Cesium-137	17.9	16.7	A		7.2	11.7 - 21.7	0.5	L
Cobalt-57	31.2	29.3	A		6.5	20.5 - 38.1	0.7	L
Cobalt-60	0.21		A			False Positive Test	0.10	
Hydrogen-3	333	334	A		-0.3	234 - 434	5	L
Iron-55	NR	89.3				62.5 - 116.1		
Manganese-54	19.3	17.8	A		8.4	12.5 - 23.1	0.5	L
Nickel-63	NR	66.3				46.4 - 86.2		
Plutonium-238	0.024	0.013	A	(17)		Sensitivity Evaluation	0.009	
Plutonium-239/240	1.30	1.61	A		-19.3	1.13 - 2.09	0.12	

Radiological								Units: (Bq/L)
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Potassium-40	146	134	A		9.0	94 - 174	5	
Strontium-90	11.8	12.2	A		-3.3	8.5 - 15.9	0.2	L
Technetium-99	NR	4.58				3.21 - 5.95		
Uranium-234/233	0.426	0.451	A		-5.5	0.316 - 0.586	0.041	
Uranium-238	2.99	3.33	A		-10.2	2.33 - 4.33	0.21	
Zinc-65	29.2	25.9	A		12.7	18.1 - 33.7	0.8	L

Radiological Reference Date: August 1, 2012

MAPEP-12-GrW27: Gross alpha/beta water

Radiological								Units: (Bq/L)
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	1.94	1.79	A		8.4	0.54 - 3.04	0.07	
Gross beta	9.40	9.1	A		3.3	4.6 - 13.7	0.14	L

Radiological Reference Date: August 1, 2012

MAPEP-12-RdF27: Radiological air filter

Inorganic								Units: (ug/sample)
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0148				0.0104 - 0.0192		
Uranium-238	NR	8.0				5.6 - 10.4		
Uranium-Total	NR	8.1				5.7 - 10.5		

Radiological								Units: (Bq/sample)
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.080	0.0780	A		2.6	0.0546 - 0.1014	0.008	
Cesium-134	2.44	2.74	A		-10.9	1.92 - 3.56	0.05	L
Cesium-137	0.023		A			False Positive Test	0.012	
Cobalt-57	1.98	1.91	A		3.7	1.34 - 2.48	0.06	
Cobalt-60	1.79	1.728	A		3.6	1.210 - 2.246	0.05	L
Manganese-54	2.56	2.36	A		8.5	1.65 - 3.07	0.08	
Plutonium-238	0.053	0.0625	A		-15.2	0.0438 - 0.0813	0.007	
Plutonium-239/240	0.001	0.00081	A	(17)		Sensitivity Evaluation	0.001	
Strontium-90	1.11	1.03	A		7.8	0.72 - 1.34	0.03	L
Uranium-234/233	0.014	0.0141	A		-0.7	0.0099 - 0.0183	0.003	H
Uranium-238	0.093	0.100	A		-7.0	0.070 - 0.130	0.010	
Zinc-65	-0.006		A			False Positive Test	0.003	

Radiological Reference Date: August 1, 2012

MAPEP-12-GrF27: Gross alpha/beta air filter

Radiological

Units: (Bq/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.873	0.97	A		-10.0	0.29 - 1.65	0.026	L
Gross beta	1.88	1.92	A		-2.1	0.96 - 2.88	0.03	L

Radiological Reference Date: August 1, 2012

MAPEP-12-RdV27: Radiological vegetation

Inorganic

Units: (ug/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0240				0.0168 - 0.0312		
Uranium-238	NR	12.7				8.9 - 16.5		
Uranium-Total	NR	12.7				8.9 - 16.5		

Radiological

Units: (Bq/sample)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.168	0.163	A		3.1	0.114 - 0.212	0.017	
Cesium-134	6.79	6.51	A		4.3	4.56 - 8.46	0.17	L
Cesium-137	4.85	4.38	A		10.7	3.07 - 5.69	0.20	
Cobalt-57	6.71	5.66	A		18.6	3.96 - 7.36	0.21	
Cobalt-60	5.34	5.12	A		4.3	3.58 - 6.66	0.15	L
Manganese-54	3.43	3.27	A		4.9	2.29 - 4.25	0.15	
Plutonium-238	0.201	0.187	A		7.5	0.131 - 0.243	0.025	
Plutonium-239/240	0.149	0.123	W		21.1	0.086 - 0.160	0.020	
Strontium-90	0.064		N	(1)		False Positive Test	0.014	
Uranium-234/233	0.093	0.0257	N		261.9	0.0180 - 0.0334	0.013	
Uranium-238	0.256	0.158	N		62.0	0.111 - 0.205	0.026	
Zinc-65	0.456		A			False Positive Test	0.228	

Radiological Reference Date: August 1, 2012

Notes:

(1) = False Positive
(17) = NOT DETECTED - reported a statistically zero result

Laboratory Services Section
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Each laboratory procedure is performed under unique analysis conditions. Variations occur in volumes, counting efficiencies, detector backgrounds, count times, decay factors, chemical recoveries, and other analysis parameters which affect the sensitivity of the measurement. The detection limits listed in the following tables were derived using standard analysis conditions and are routinely achievable on normal samples. If greater sensitivity is required, it is usually possible to adjust detection limits by changing one or more of these parameters.

Detection Limits for Gamma Spectroscopy
Sample Type

Isotope	Soil - Sediment		Air Filter		Water - Milk		Vegetation - Fish	
	µCi/g	pCi/kg	µCi/filter	pCi/filter	µCi/ml	pCi/l	µCi/g	pCi/kg
Ac-228	2.0E-07	2.0E+02	2.0E-05	2.0E+01	2.0E-08	2.0E+01	1.0E-07	1.0E+02
Ag-110m	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Am-241	1.0E-07	1.0E+02	5.0E-06	5.0E+00	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Ba-140	4.0E-07	4.0E+02	2.0E-05	2.0E+01	2.0E-08	2.0E+01	1.0E-07	1.0E+02
Be-7	1.0E-06	1.0E+03	3.0E-05	3.0E+01	3.0E-08	3.0E+01	1.0E-07	1.0E+02
Bi-212	5.0E-07	5.0E+02	3.0E-05	3.0E+01	1.0E-07	1.0E+02	1.0E-07	1.0E+02
Bi-214	2.0E-07	2.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Co-57	1.0E-07	1.0E+02	2.0E-06	2.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Co-58	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Co-60	1.0E-07	1.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Cr-51	1.0E-06	1.0E+03	3.0E-05	3.0E+01	3.0E-08	3.0E+01	1.0E-07	1.0E+02
Cs-134	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Cs-137	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Fe-59	1.0E-07	1.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02
I-125	1.0E-06	1.0E+03	1.0E-05	1.0E+01	2.0E-08	2.0E+01	1.0E-07	1.0E+02
I-131*	1.0E-07	1.0E+02	5.0E-06	5.0E+00	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Ir-192	1.0E-07	1.0E+02	5.0E-06	5.0E+00	1.0E-08	1.0E+01	1.0E-07	1.0E+02
K-40	2.0E-06	2.0E+03	1.0E-04	1.0E+02	4.0E-08	4.0E+01	1.0E-07	1.0E+02
La-140	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Mn-54	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Nb-95	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Pb-210	4.0E-07	4.0E+02	2.0E-05	2.0E+01	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Pb-212	2.0E-07	2.0E+02	1.0E-05	1.0E+01	3.0E-08	3.0E+01	1.0E-07	1.0E+02
Pb-214	2.0E-07	2.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Ra-226	2.0E-06	2.0E+03	1.0E-04	1.0E+02	1.0E-07	1.0E+02	2.0E-07	2.0E+02
Sb-124	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Sc-46	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
Th-230	1.0E-05	1.0E+04	3.0E-04	3.0E+02	1.0E-06	1.0E+03	2.0E-06	2.0E+03
Th-234	1.0E-06	1.0E+03	4.0E-05	4.0E+01	1.0E-07	1.0E+02	2.0E-07	2.0E+02
Tl-208	1.0E-07	1.0E+02	5.0E-06	5.0E+00	5.0E-09	5.0E+00	1.0E-07	1.0E+02
U-235	4.0E-07	4.0E+02	2.0E-05	2.0E+01	3.0E-08	3.0E+01	1.0E-07	1.0E+02
U-238	1.0E-06	1.0E+03	3.0E-05	3.0E+01	6.0E-08	6.0E+01	2.0E-07	2.0E+02
Zn-65	2.0E-07	2.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02
Zr-95	1.0E-07	1.0E+02	1.0E-05	1.0E+01	1.0E-08	1.0E+01	1.0E-07	1.0E+02

*Air iodine can be determined by using cartridges. Detection limits are 2.0E-14µCi/ml or 2.0E-02 pCi/m^3.

Laboratory Services Section
Environmental Sciences Branch

Detection Limits for Chemical Analysis Procedures
Sample Type

Isotope	Soil - Sediment		Air Filter		Water - Milk		Vegetation - Fish	
	µCi/g	pCi/kg	µCi/filter	pCi/filter	µCi/ml	pCi/l	µCi/g	pCi/kg
Alpha	6.1E-06	6.1E+03	7.0E-07	7.0E-01	3.3E-09	3.3E+00	3.3E-06	3.3E+03
Beta	1.2E-05	1.2E+04	1.3E-06	1.3E+00	6.6E-09	6.6E+00	6.6E-06	6.6E+03
C-14					3.0E-07	3.0E+02		
H-3			2.0E-06	2.0E+00	1.0E-06	1.0E+03		
Ra-226	4.0E-07	4.0E+02	8.0E-07	8.0E-01	8.0E-10	8.0E-01	4.0E-07	4.0E+02
Ra-228	1.9E-06	1.9E+03	3.9E-06	3.9E+00	3.9E-09	3.9E+00	1.9E-06	1.9E+03
Sr-89	9.0E-07	9.0E+02	1.7E-06	1.7E+00	1.7E-09	1.7E+00	9.0E-07	9.0E+02
Sr-90	1.3E-06	1.3E+03	2.7E-06	2.7E+00	2.7E-09	2.7E+00	1.3E-06	1.3E+03

Detection Limits for Alpha Spectroscopy
Sample Type

Isotope	Soil - Sediment		Air Filter		Water - Milk		Vegetation - Fish	
	µCi/g	pCi/kg	µCi/filter	pCi/filter	µCi/ml	pCi/l	µCi/g	pCi/kg
Am-241	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03
Pu-239	2.0E-07	2.0E+02	2.0E-07	2.0E-01	2.0E-10	2.0E-01	2.0E-07	2.0E+02
Th-228	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03
Th-230	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03
Th-232	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03
U-234	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03
U-238	1.0E-06	1.0E+03	1.0E-06	1.0E+00	1.0E-09	1.0E+00	1.0E-06	1.0E+03

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