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

Radiation Inspection Branch Environmental Monitoring Summary for 2022

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.

Table of Contents

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 2021 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
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Robert E. Free

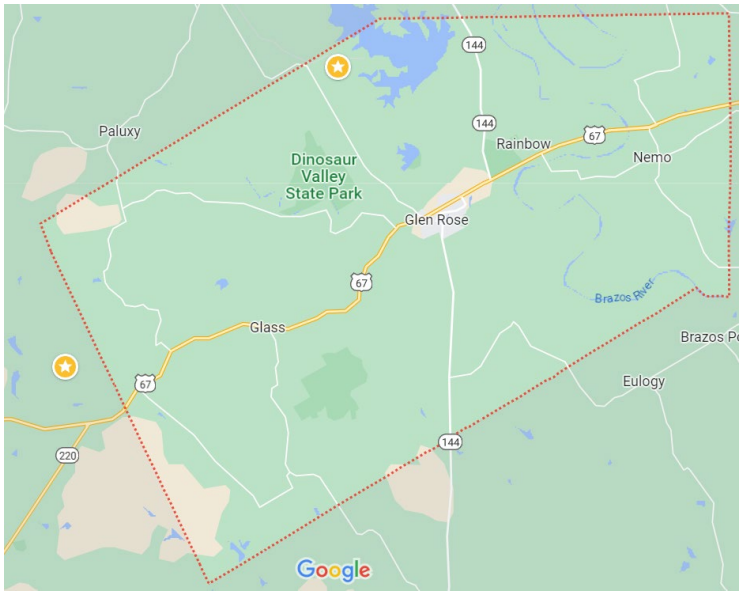
Fixed Nuclear Facilities

Comanche Peak Nuclear Power Plant
Radiation Branch Site No. 031

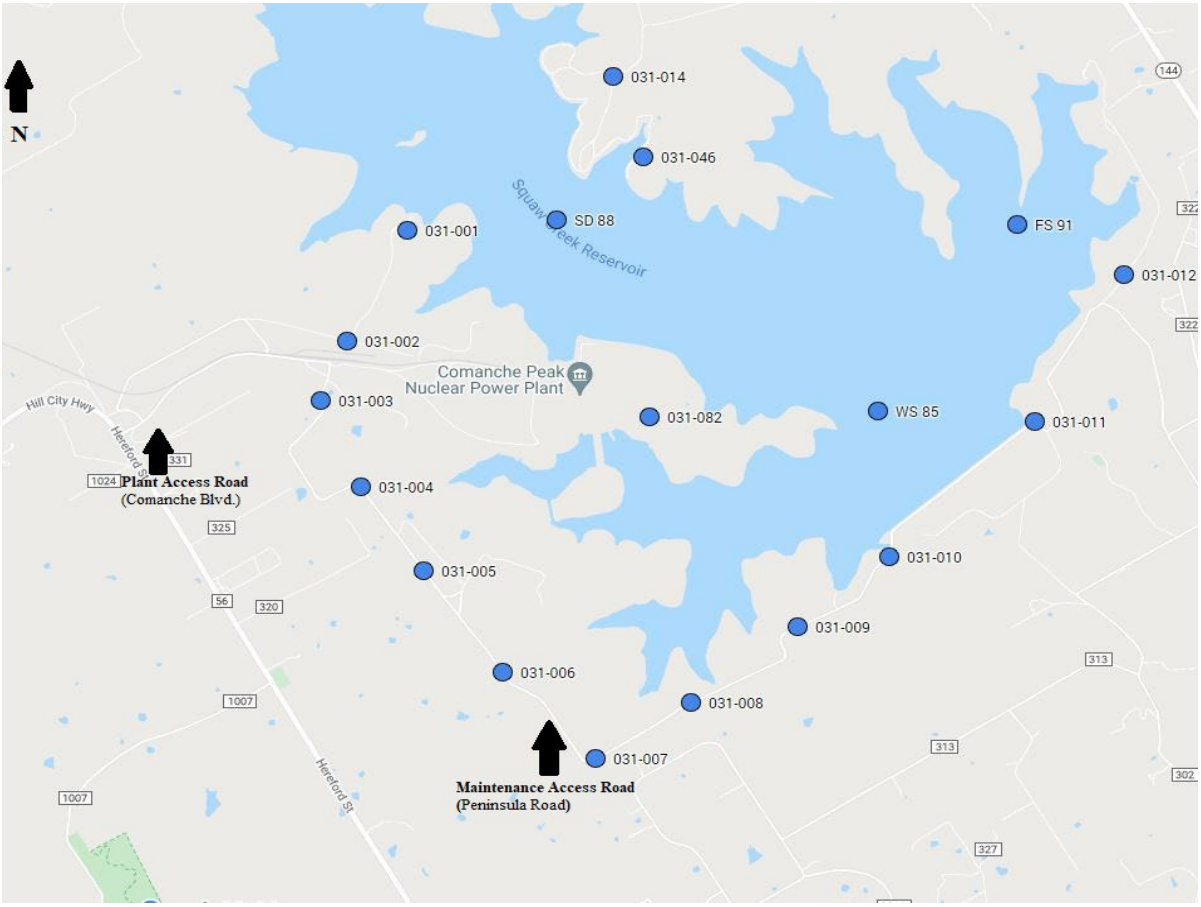
Comanche Peak Nuclear Power Plant (CPNPP) is a two-unit nuclear-fueled power plant owned and operated by Luminant Power. The plant is located in Somervell County four and one-half miles northwest of Glen Rose and approximately 80 miles southwest of downtown Dallas.

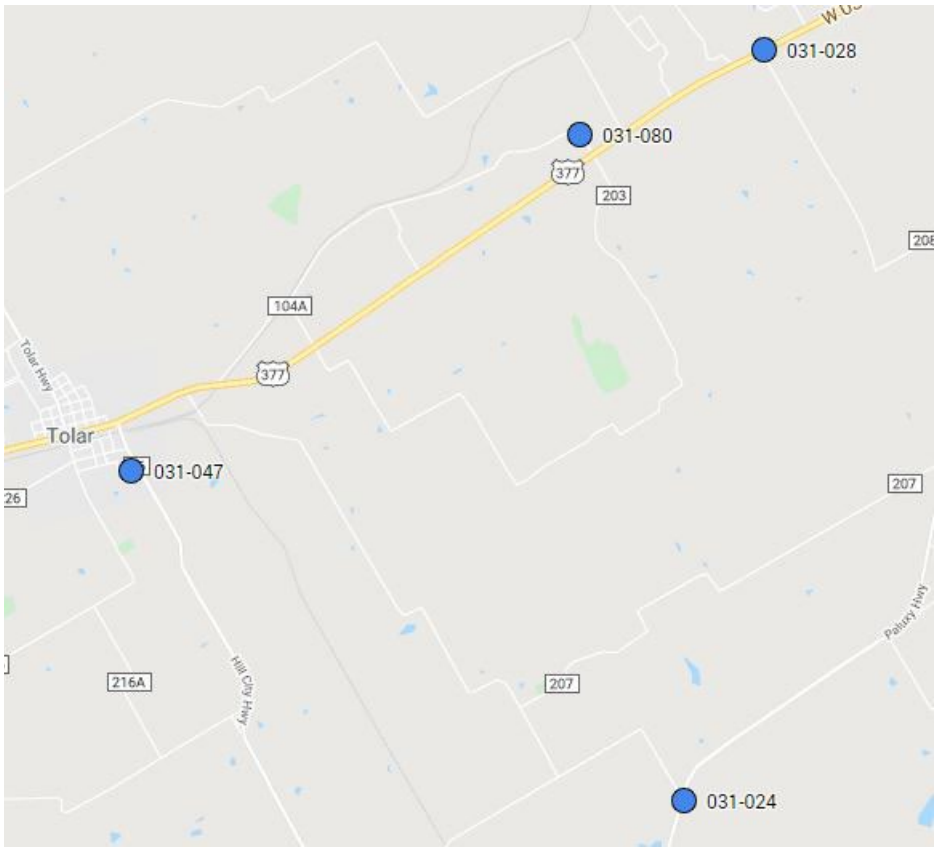
CPNPP, Luminant Power's sole nuclear power plant, with an operating capacity of 2,500 megawatts [two Westinghouse 1,250 megawatt (electric) pressurized water reactor units], began operation in 1990, although fuel had been received on-site in 1982-1983. The plant has approximately 1,300 employees. The 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

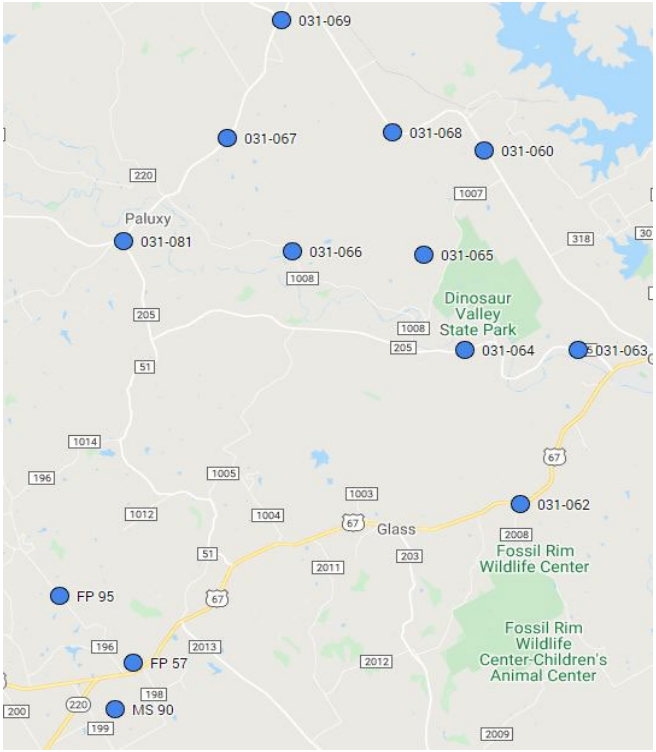


Comanche Peak Nuclear Power Plant
Monitoring Station Locations





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	20	26	32	28	106	
2	24	28	32	29	113	
3	21	27	30	27	105	
4	22	28	31	31	112	
5	21	28	31	28	108	
6	21	28	30	27	106	
7	21	29	29	28	107	
8	23	27	32	28	110	
9	22	29	31	29	111	
10	23	27	31	27	108	
11	21	26	28	26	101	
12	23	31	33	31	118	
14	22	27	28	28	105	
24	21	28	30	27	106	
28	22	29	30	29	110	
30	23	30	32	28	113	
39	23	28	32	28	111	
46	25	29	31	28	113	
47	22	28	30	27	107	
49	23	27	32	32	114	
60	21	28	29	27	105	
61	21	25	29	27	102	
62	22	27	30	26	105	
63	24	32	33	30	119	
64	22	27	32	29	110	
65	20	25	29	26	100	
66	21	27	30	27	105	
67	21	25	30	26	102	
68	21	27	0	28	76	QTR 3 OSL Not Found
69	20	26	29	28	103	
70	21	27	32	28	108	
71	22	30	31	28	111	
72	23	29	33	28	113	
73	23	28	31	29	111	
74	22	26	31	29	108	
75	21	27	31	27	106	
76	22	25	29	27	103	
77	21	26	29	26	102	
78	21	26	30	27	104	
79	21	26	32	28	107	
80	22	27	31	30	110	
81	23	28	31	28	110	
82	21	27	32	29	109	

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					
02/1/2022	AF79958	001	Ba-140	<8.6e-6	µCi/mL
			Be-7	2.58e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<3.2e-6	µCi/mL
			Cs-134	<2.2e-6	µCi/mL
			Cs-137	<3.1e-6	µCi/mL
			Fe-59	<5.0e-6	µCi/mL
			I-131	<2.5e-6	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Pb-212	2.5e-6	µCi/mL
			Zn-65	<4.8e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL
2/1/2022	AF79559	057	Ba-140	<8.9e-6	µCi/mL
			Be-7	2.69e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<3.2e-6	µCi/mL
			Fe-59	<4.8e-6	µCi/mL
			I-131	<2.6e-6	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.6e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<5.5e-6	µCi/mL
			Zr-95	<4.5e-6	µCi/mL
5/20/2022	AF91905	001	Ba-140	<8.8e-6	µCi/mL
			Be-7	2.31e-4	µCi/mL
			Co-58	<2.7e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.4e-6	µCi/mL
			Cs-137	<3.0e-6	µCi/mL
			Fe-59	<4.2e-6	µCi/mL
			I-131	<2.5e-6	µCi/mL
			La-140	<3.0e-6	µCi/mL
			Mn-54	<2.6e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<5.7e-6	µCi/mL
			Zr-95	<4.8e-6	µCi/mL
			Ba-140	<8.8e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
5/20/2022	AF91906	057	Ba-140	<8.2e-6	µCi/mL
			Be-7	2.39e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.3e-6	µCi/mL
			Cs-137	<2.9e-6	µCi/mL
			Fe-59	<4.6e-6	µCi/mL
			I-131	<2.7e-6	µCi/mL
			La-140	<3.0e-6	µCi/mL
			Mn-54	<2.8e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<5.3e-6	µCi/mL
			Zr-95	<4.9e-6	µCi/mL
8/3/2022	AG05885	001	Ba-140	<4.0e-6	µCi/mL
			Be-7	2.46e-4	µCi/mL
			Co-58	<1.1e-6	µCi/mL
			Co-60	<1.6e-6	µCi/mL
			Cs-134	<1.3e-6	µCi/mL
			Cs-137	<1.3e-6	µCi/mL
			Fe-59	<2.8e-6	µCi/mL
			I-131	<1.1e-6	µCi/mL
			K-40	2.2e-5	µCi/mL
			La-140	<1.7e-6	µCi/mL
			Mn-54	<1.4e-6	µCi/mL
			Nb-95	<1.3e-6	µCi/mL
			Zn-65	<3.2e-6	µCi/mL
			Zr-95	<2.2e-6	µCi/mL
8/3/2022	AG05886	057	Ba-140	<8.8e-6	µCi/mL
			Be-7	3.20e-4	µCi/mL
			Co-58	<2.7e-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	<2.7e-6	µCi/mL
			La-140	<3.3e-6	µCi/mL
			Mn-54	<2.6e-6	µCi/mL
			Nb-95	<2.6e-6	µCi/mL
			Zn-65	<6.1e-6	µCi/mL
			Zr-95	<4.5e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
10/19/2022	AG16353	001	Ba-140	<8.1e-6	µCi/mL
			Be-7	2.60e-4	µCi/mL
			Co-58	<2.5e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.4e-6	µCi/mL
			Cs-137	<3.0e-6	µCi/mL
			Fe-59	<5.0e-6	µCi/mL
			I-131	<2.5e-6	µCi/mL
			La-140	<3.5e-6	µCi/mL
			Mn-54	<2.5e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Tl-208	4.4e-6	µCi/mL
			Zn-65	<5.8e-6	µCi/mL
			Zr-95	<4.6e-6	µCi/mL
10/19/2022	AG16354	057	Ba-140	<8.8e-6	µCi/mL
			Be-7	3.44e-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	<3.1e-6	µCi/mL
			Fe-59	<4.8e-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	<2.7e-6	µCi/mL
			Zn-65	<6.2e-6	µCi/mL
			Zr-95	<4.3e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
1/6/2022	AF79346	001	I-131	<5.2e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
1/13/2022	AF79790	001	I-131	<5.4e-15	µCi/mL
			K-40	2.23e-13	µCi/mL
1/20/2022	AF80810	001	I-131	<5.6e-15	µCi/mL
			K-40	2.13e-13	µCi/mL
1/27/2022	AF81769	001	I-131	<5.1e-15	µCi/mL
			K-40	2.32e-13	µCi/mL
2/2/2022	AF82984	001	I-131	<5.0e-15	µCi/mL
			K-40	2.23e-13	µCi/mL
2/9/2022	AF83809	001	I-131	<5.2e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
2/17/2022	AF85097	001	I-131	<4.5e-15	µCi/mL
			K-40	2.86e-13	µCi/mL
2/25/2022	AF86349	001	I-131	<6.2e-15	µCi/mL
			K-40	2.43e-13	µCi/mL
3/3/2022	AF87353	001	I-131	<5.5e-15	µCi/mL
			K-40	2.17e-13	µCi/mL
3/9/2022	AF88040	001	I-131	<5.0e-15	µCi/mL
			K-40	2.39e-13	µCi/mL
3/17/2022	AF89243	001	I-131	<5.6e-15	µCi/mL
			K-40	2.06e-13	µCi/mL
3/24/2022	AF90097	001	I-131	<5.5e-15	µCi/mL
			K-40	1.83e-13	µCi/mL
3/31/2022	AF91177	001	I-131	<5.5e-15	µCi/mL
			K-40	1.83e-13	µCi/mL
4/7/2022	AF92101	001	I-131	<5.2e-15	µCi/mL
			K-40	2.02e-13	µCi/mL
4/14/2022	AF93032	001	I-131	<5.6e-15	µCi/mL
			K-40	2.20e-13	µCi/mL
4/21/2022	AF93788	001	I-131	<5.3e-15	µCi/mL
			K-40	2.45e-13	µCi/mL
4/28/2022	AF94700	001	I-131	<5.5e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
5/5/2022	AF95428	001	I-131	<5.4e-15	µCi/mL
			K-40	2.00e-13	µCi/mL
5/12/2022	AF96349	001	I-131	<5.4e-15	µCi/mL
			K-40	1.91e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
5/19/2022	AF97372	001	I-131	<5.4e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
5/26/2022	AF98341	001	I-131	<4.3e-15	µCi/mL
			K-40	2.49e-13	µCi/mL
6/2/2022	AF98892	001	I-131	<4.0e-15	µCi/mL
			K-40	2.72e-13	µCi/mL
6/9/2022	AG00051	001	I-131	<3.9e-15	µCi/mL
			K-40	2.68e-13	µCi/mL
6/16/2022	AG00907	001	I-131	<3.4e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
6/24/2022	AG02050	001	I-131	<3.7e-15	µCi/mL
			K-40	2.14e-13	µCi/mL
6/30/2022	AG02655	001	I-131	<4.1e-15	µCi/mL
			K-40	2.58e-13	µCi/mL
7/7/2022	AG03355	001	I-131	<5.2e-15	µCi/mL
			K-40	2.36e-13	µCi/mL
7/13/2022	AG04138	001	I-131	<5.0e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
7/20/2022	AG05179	001	I-131	<3.1e-15	µCi/mL
			K-40	2.54e-13	µCi/mL
7/28/2022	AG06533	001	I-131	<3.5e-15	µCi/mL
			K-40	2.18e-13	µCi/mL
8/4/2022	AG07447	001	I-131	<5.1e-15	µCi/mL
			K-40	2.47e-13	µCi/mL
8/12/2022	AG09016	001	I-131	<5.7e-15	µCi/mL
			K-40	2.82e-13	µCi/mL
8/17/2022	AG09325	001	I-131	<5.2e-15	µCi/mL
			K-40	2.17e-13	µCi/mL
8/25/2022	AG10653	001	I-131	<2.3e-15	µCi/mL
			K-40	2.78e-13	µCi/mL
9/1/2022	AG11255	001	I-131	<2.3e-15	µCi/mL
			K-40	2.69e-13	µCi/mL
9/8/2022	AG11696	001	I-131	<5.5e-15	µCi/mL
			K-40	2.26e-13	µCi/mL
9/15/2022	AG13062	001	I-131	<5.2e-15	µCi/mL
			K-40	2.16e-13	µCi/mL
9/22/2022	AG13996	001	I-131	<5.5e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
			Tl-208	4.1e-15	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
9/29/2022	AG15110	001	I-131	<5.3e-15	µCi/mL
			K-40	1.99e-13	µCi/mL
10/6/2022	AG16180	001	I-131	<5.5e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
10/13/2022	AG16728	001	I-131	<5.5e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
10/20/2022	AG17669	001	I-131	<5.4e-15	µCi/mL
			K-40	2.14e-13	µCi/mL
10/25/2022	AG18183	001	I-131	<4.8e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
11/1/2022	AG18478	001	I-131	<5.4e-15	µCi/mL
			K-40	2.25e-13	µCi/mL
11/8/2022	AG18517	001	I-131	<6.7e-15	µCi/mL
			K-40	2.09e-13	µCi/mL
11/15/2022	AG18687	001	I-131	<2.9e-6	µCi/mL
			K-40	1.26e-4	µCi/mL
11/22/2022	AG19739	001	I-131	<4.2e-6	µCi/mL
			K-40	2.73e-4	µCi/mL
11/29/2022	AG20116	001	I-131	<3.0e-6	µCi/mL
			K-40	2.33e-4	µCi/mL
12/6/2022	AG21193	001	I-131	<9.1e-15	µCi/mL
			K-40	7.6e-13	µCi/mL
12/13/2022	AG22007	001	I-131	<8.1e-15	µCi/mL
			K-40	1.93e-13	µCi/mL
12/20/2022	AG22235	001	I-131	<5.0e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
12/27/2022	AG22885	001	I-131	<5.6e-15	µCi/mL
			K-40	2.00e-13	µCi/mL
1/6/2022	AF79348	057	I-131	<5.8e-15	µCi/mL
			K-40	1.88e-13	µCi/mL
1/13/2022	AF79792	057	I-131	<5.6e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
1/20/2022	AF80812	057	I-131	<5.8e-15	µCi/mL
			K-40	2.54e13	µCi/mL
1/27/2022	AF81771	057	I-131	<5.6e-15	µCi/mL
			K-40	1.97e-13	µCi/mL
2/2/2022	AF82986	057	I-131	<5.4e-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					
2/9/2022	AF83811	057	I-131	<5.2e-15	µCi/mL
			K-40	2.30e-13	µCi/mL
2/17/2022	AF85099	057	I-131	<2.2e-15	µCi/mL
			K-40	2.60e-13	µCi/mL
2/25/2022	AF86351	057	I-131	<2.4e-15	µCi/mL
			K-40	2.73e-13	µCi/mL
3/3/2022	AF87355	057	I-131	<5.6e-15	µCi/mL
			K-40	2.51e-13	µCi/mL
3/9/2022	AF88039	057	I-131	<5.1e-15	µCi/mL
			K-40	2.29e-13	µCi/mL
3/17/2022	AF89245	057	I-131	<5.7e-15	µCi/mL
			K-40	1.84e-13	µCi/mL
3/24/2022	AF90099	057	I-131	<5.6e-15	µCi/mL
			K-40	2.16e-13	µCi/mL
3/31/2022	AF91179	057	I-131	<5.9e-15	µCi/mL
			K-40	2.21e-13	µCi/mL
4/7/2022	AF92103	057	I-131	<5.5e-15	µCi/mL
			K-40	1.99e-13	µCi/mL
			Pb-212	1.75e-14	µCi/mL
4/14/2022	AF93030	057	I-131	<5.6e-15	µCi/mL
			K-40	2.35e-13	µCi/mL
4/21/2022	AF93790	057	I-131	<5.5e-15	µCi/mL
			K-40	2.58e-13	µCi/mL
4/28/2022	AF94702	057	I-131	<5.8e-15	µCi/mL
			K-40	2.47e-13	µCi/mL
5/5/2022	AF95430	057	I-131	<5.6e-15	µCi/mL
			K-40	1.65e-13	µCi/mL
5/12/2022	AF96351	057	I-131	<5.5e-15	µCi/mL
			K-40	2.45e-13	µCi/mL
5/19/2022	AF97374	057	I-131	<5.5e-15	µCi/mL
			K-40	1.91e-13	µCi/mL
5/26/2022	AF98343	057	I-131	<3.7e-15	µCi/mL
			K-40	8e-15	µCi/mL
6/2/2022	AF98894	057	I-131	<3.6e-15	µCi/mL
			K-40	9e-15	µCi/mL
6/9/2022	AG00053	057	I-131	<2.4e-15	µCi/mL
			K-40	2.47e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
6/16/2022	AG00909	057	I-131	<2.2e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
6/24/2022	AG02052	057	I-131	<2.4e-15	µCi/mL
			K-40	2.71e-13	µCi/mL
6/30/2022	AG02657	057	I-131	<3.3e-15	µCi/mL
			K-40	1.0e-14	µCi/mL
7/7/2022	AG03357	057	I-131	<4.5e-15	µCi/mL
			K-40	2.45e-13	µCi/mL
7/13/2022	AG04140	057	I-131	<2.1e-15	µCi/mL
			K-40	2.81e-13	µCi/mL
			Pb-212	4.4e-15	µCi/mL
7/20/2022	AG05181	057	I-131	<2.0e-15	µCi/mL
			K-40	3.10e-13	µCi/mL
7/28/2022	AG06535	057	I-131	<2.4e-15	µCi/mL
			K-40	2.79e-13	µCi/mL
8/4/2022	AG07449	057	I-131	<4.5e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
8/12/2022	AG09018	057	I-131	<2.5e-15	µCi/mL
			K-40	2.82e-13	µCi/mL
8/17/2022	AG09327	057	I-131	<2.1e-15	µCi/mL
			K-40	2.95e-13	µCi/mL
8/25/2022	AG10655	057	I-131	<5.4e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
9/1/2022	AG11257	057	I-131	<5.2e-15	µCi/mL
			K-40	2.52e-13	µCi/mL
9/8/2022	AG11698	057	I-131	<2.1e-15	µCi/mL
			K-40	2.70e-13	µCi/mL
9/15/2022	AG13064	057	I-131	<5.6e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
9/15/2022	AG13064	057	Pb-212	1.49e-14	µCi/mL
			I-131	<5.5e-15	µCi/mL
9/22/2022	AG13998	057	K-40	2.03e-13	µCi/mL
			Pb-212	8.1e-15	µCi/mL
			Tl-208	4.9e-15	µCi/mL
9/29/2022	AG15112	057	I-131	<5.4e-15	µCi/mL
			K-40	2.58e-13	µCi/mL
10/6/2022	AG16182	057	I-131	<5.5e-15	µCi/mL
			K-40	2.00e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
10/13/2022	AG16730	057	I-131	<5.5e-15	µCi/mL
			K-40	2.43e-13	µCi/mL
10/20/2022	AG17671	057	I-131	<5.2e-15	µCi/mL
			K-40	2.07e-13	µCi/mL
			Tl-208	5.4e-15	µCi/mL
10/25/2022	AG18185	057	I-131	<4.8e-15	µCi/mL
			K-40	2.15e-13	µCi/mL
11/1/2022	AG18480	057	I-131	<2.2e-15	µCi/mL
			K-40	3.02e-13	µCi/mL
			Pb-212	5.1e-15	µCi/mL
11/8/2022	AG18519	057	I-131	<6.1e-15	µCi/mL
			K-40	1.98e-13	µCi/mL
11/15/2022	AG18689	057	I-131	<4.7e-15	µCi/mL
			K-40	1.98e-13	µCi/mL
11/22/2022	AG19741	057	I-131	<3.2e-15	µCi/mL
			K-40	2.94e-13	µCi/mL
			Pb-214	5.9e-15	µCi/mL
11/29/2022	AG20118	057	I-131	<5.3e-15	µCi/mL
			K-40	4.00e-13	µCi/mL
			Pb-212	7.2e-15	µCi/mL
12/6/2022	AG21195	057	I-131	<5.3e-15	µCi/mL
			K-40	4.49e-13	µCi/mL
12/13/2022	AG22009	057	I-131	<8.1e-15	µCi/mL
			K-40	1.51e-13	µCi/mL
12/20/2022	AG22237	057	I-131	<5.3e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
			Pb-212	2.04e-14	µCi/mL
12/27/2022	AG22887	057	I-131	<5.8e-15	µCi/mL
			K-40	2.32e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
1/6/2022	AF79345	001	Gross Beta	3.47e-14	µCi/mL
1/13/2022	AF79789	001	Gross Beta	4.12e-14	µCi/mL
1/20/2022	AF80809	001	Gross Beta	3.15e-14	µCi/mL
1/27/2022	AF81768	001	Gross Beta	3.37e-14	µCi/mL
2/2/2022	AF82983	001	Gross Beta	2.85e-14	µCi/mL
2/9/2022	AF83808	001	Gross Beta	2.33e-14	µCi/mL
2/17/2022	AF85096	001	Gross Beta	2.29e-14	µCi/mL
2/25/2022	AF86348	001	Gross Beta	2.43e-14	µCi/mL
3/3/2022	AF87352	001	Gross Beta	3.63e-14	µCi/mL
3/9/2022	AF88038	001	Gross Beta	3.11e-14	µCi/mL
3/17/2022	AF89242	001	Gross Beta	2.86e-14	µCi/mL
3/24/2022	AF90096	001	Gross Beta	2.22e-14	µCi/mL
3/31/2022	AF91176	001	Gross Beta	2.00e-14	µCi/mL
4/7/2022	AF92100	001	Gross Beta	2.560e-14	µCi/mL
4/14/2022	AF93031	001	Gross Beta	1.91e-14	µCi/mL
4/21/2022	AF93787	001	Gross Beta	2.32e-14	µCi/mL
4/28/2022	AF94699	001	Gross Beta	2.08e-14	µCi/mL
5/5/2022	AF95427	001	Gross Beta	1.81e-14	µCi/mL
5/12/2022	AF96348	001	Gross Beta	2.37e-14	µCi/mL
5/19/2022	AF97371	001	Gross Beta	2.64e-14	µCi/mL
5/26/2022	AF98340	001	Gross Beta	2.58e-14	µCi/mL
6/2/2022	AF98891	001	Gross Beta	2.21e-14	µCi/mL
6/9/2022	AG00050	001	Gross Beta	1.49e-14	µCi/mL
6/16/2022	AG00908	001	Gross Beta	2.10e-14	µCi/mL
6/24/2022	AG02049	001	Gross Beta	2.53e-14	µCi/mL
6/30/2022	AG02654	001	Gross Beta	2.54e-14	µCi/mL
7/7/2022	AG03354	001	Gross Beta	1.93e-14	µCi/mL
7/13/2022	AG04137	001	Gross Beta	1.96e-14	µCi/mL
7/20/2022	AG05178	001	Gross Beta	2.76e-14	µCi/mL
7/28/2022	AG06532	001	Gross Beta	2.08e-14	µCi/mL
8/4/2022	AG07446	001	Gross Beta	1.50e-14	µCi/mL
8/12/2022	AG09015	001	Gross Beta	2.04e-14	µCi/mL
8/17/2022	AG09324	001	Gross Beta	1.86e-14	µCi/mL
8/25/2022	AG10652	001	Gross Beta	1.65e-14	µCi/mL
9/1/2022	AG11254	001	Gross Beta	1.19e-14	µCi/mL
9/8/2022	AG11695	001	Gross Beta	1.62e-14	µCi/mL
9/15/2022	AG13061	001	Gross Beta	2.93e-14	µCi/mL
9/22/2022	AG13995	001	Gross Beta	2.86e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
9/29/2022	AG15109	001	Gross Beta	2.77e-14	µCi/mL
10/6/2022	AG16179	001	Gross Beta	3.10e-14	µCi/mL
10/13/2022	AG16727	001	Gross Beta	5.41e-14	µCi/mL
10/20/2022	AG17668	001	Gross Beta	3.47e-14	µCi/mL
10/25/2022	AG18182	001	Gross Beta	2.65e-14	µCi/mL
11/1/2022	AG18477	001	Gross Beta	3.22e-14	µCi/mL
11/8/2022	AG18516	001	Gross Beta	2.88e-14	µCi/mL
11/15/2022	AG18686	001	Gross Beta	2.62e-6	µCi/mL
11/22/2022	AG19738	001	Gross Beta	2.45e-6	µCi/mL
11/29/2022	AG20115	001	Gross Beta	2.41e-6	µCi/mL
12/6/2022	AG21192	001	Gross Beta	2.81e-14	µCi/mL
12/13/2022	AG22006	001	Gross Beta	2.69e-14	µCi/mL
12/20/2022	AG22234	001	Gross Beta	2.20e-14	µCi/mL
12/27/2022	AG22884	001	Gross Beta	3.60e-14	µCi/mL
4/14/2022	AF93029	052	Gross Beta	2.20e-14	µCi/mL
1/6/2022	AF79347	057	Gross Beta	3.40e-14	µCi/mL
1/13/2022	AF79791	057	Gross Beta	3.92e-14	µCi/mL
1/20/2022	AF80811	057	Gross Beta	3.00e-14	µCi/mL
1/27/2022	AF81770	057	Gross Beta	3.26e-14	µCi/mL
2/2/2022	AF82985	057	Gross Beta	2.85e-14	µCi/mL
2/9/2022	AF83810	057	Gross Beta	2.33e-14	µCi/mL
2/17/2022	AF85098	057	Gross Beta	2.50e-14	µCi/mL
2/25/2022	AF86350	057	Gross Beta	2.40e-14	µCi/mL
3/3/2022	AF87354	057	Gross Beta	3.60e-14	µCi/mL
3/9/2022	AF88037	057	Gross Beta	3.01e-14	µCi/mL
3/17/2022	AF89244	057	Gross Beta	2.66e-14	µCi/mL
3/24/2022	AF90098	057	Gross Beta	1.95e-14	µCi/mL
3/31/2022	AF91178	057	Gross Beta	2.040e-14	µCi/mL
4/7/2022	AF92102	057	Gross Beta	2.83e-14	µCi/mL
4/21/2022	AF93789	057	Gross Beta	2.54e-14	µCi/mL
4/28/2022	AF94701	057	Gross Beta	2.24e-14	µCi/mL
5/5/2022	AF95429	057	Gross Beta	2.07e-14	µCi/mL
5/12/2022	AF96350	057	Gross Beta	2.61e-14	µCi/mL
5/19/2022	AF97373	057	Gross Beta	2.75e-14	µCi/mL
5/26/2022	AF98342	057	Gross Beta	2.97e-14	µCi/mL
6/2/2022	AF98893	057	Gross Beta	2.44e-14	µCi/mL
6/9/2022	AG00052	057	Gross Beta	1.85e-14	µCi/mL
6/16/2022	AG00910	057	Gross Beta	2.35e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
6/24/2022	AG02051	057	Gross Beta	2.92e-14	µCi/mL
6/30/2022	AG02656	057	Gross Beta	3.04e-14	µCi/mL
7/7/2022	AG03356	057	Gross Beta	2.15e-14	µCi/mL
7/13/2022	AG04139	057	Gross Beta	2.41e-14	µCi/mL
7/20/2022	AG05180	057	Gross Beta	3.01e-14	µCi/mL
7/28/2022	AG06534	057	Gross Beta	2.34e-14	µCi/mL
8/4/2022	AG07448	057	Gross Beta	1.82e-14	µCi/mL
8/12/2022	AG09017	057	Gross Beta	2.23e-14	µCi/mL
8/17/2022	AG09326	057	Gross Beta	2.18e-14	µCi/mL
8/25/2022	AG10654	057	Gross Beta	2.16e-14	µCi/mL
9/1/2022	AG11256	057	Gross Beta	1.42e-14	µCi/mL
9/8/2022	AG11697	057	Gross Beta	1.97e-14	µCi/mL
9/15/2022	AG13063	057	Gross Beta	3.52e-14	µCi/mL
9/22/2022	AG13997	057	Gross Beta	2.97e-14	µCi/mL
9/29/2022	AG15111	057	Gross Beta	2.88e-14	µCi/mL
10/6/2022	AG16181	057	Gross Beta	3.52e-14	µCi/mL
10/13/2022	AG16729	057	Gross Beta	5.69e-14	µCi/mL
10/20/2022	AG17670	057	Gross Beta	3.28e-14	µCi/mL
10/25/2022	AG18184	057	Gross Beta	2.73e-14	µCi/mL
11/1/2022	AG18479	057	Gross Beta	3.42e-14	µCi/mL
11/8/2022	AG18518	057	Gross Beta	2.56e-14	µCi/mL
11/15/2022	AG18688	057	Gross Beta	2.46e-14	µCi/mL
11/22/2022	AG19740	057	Gross Beta	4.19e-14	µCi/mL
11/29/2022	AG20117	057	Gross Beta	3.33e-14	µCi/mL
12/6/2022	AG21194	057	Gross Beta	1.71e-14	µCi/mL
12/13/2022	AG22008	057	Gross Beta	2.40e-14	µCi/mL
12/20/2022	AG22236	057	Gross Beta	2.62e-14	µCi/mL
12/27/2022	AG22886	057	Gross Beta	3.58e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
11/8/2022	AG18520	093	Ba-140	<3.4e-8	µCi/g
			Co-58	<8.1e-9	µCi/g
			Co-60	<8.6e-9	µCi/g
			Cs-134	<7.5e-9	µCi/g
			Cs-137	<7.6e-9	µCi/g
			Fe-59	<1.9e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	2.97e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<7.8e-9	µCi/g
			Nb-95	<8.5e-9	µCi/g
			Zn-65	<2.0e-8	µCi/g
			Zr-95	<1.3e-8	µCi/g

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
5/26/2022	AF98345	091	Ba-140	<2.3e-8	µCi/g
			Co-58	<5.9e-9	µCi/g
			Co-60	<8.0e-9	µCi/g
			Cs-134	<6.4e-9	µCi/g
			Cs-137	<6.5e-9	µCi/g
			Fe-59	<1.4e-8	µCi/g
			I-131	<6.7e-9	µCi/g
			K-40	3.29e-6	µCi/g
			La-140	<7.4e-9	µCi/g
			Mn-54	<6.2e-9	µCi/g
			Nb-95	<6.4e-9	µCi/g
			Zn-65	<1.6e-8	µCi/g
			Zr-95	<1.1e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
5/26/2022	AF98346	091	Ba-140	<4.4e-8	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.4e-8	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<2.6e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	3.18e-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	<2.9e-8	µCi/g
			Zr-95	<2.2e-8	µCi/g
11/15/2022	AG18690	091	Ba-140	<6.4e-8	µCi/g
			Co-58	<1.7e-8	µCi/g
			Co-60	<1.7e-8	µCi/g
			Cs-134	<1.6e-8	µCi/g
			Cs-137	<1.8e-8	µCi/g
			Fe-59	<3.0e-8	µCi/g
			I-131	<2.3e-8	µCi/g
			K-40	2.20e-6	µCi/g
			La-140	<1.8e-8	µCi/g
			Mn-54	<1.7e-8	µCi/g
			Nb-95	<1.8e-8	µCi/g
			Zn-65	<3.7e-8	µCi/g
			Zr-95	<2.9e-8	µCi/g
11/15/2022	AG18691	091	Ba-140	<6.4e-8	µCi/g
			Co-58	<1.6e-8	µCi/g
			Co-60	<1.7e-8	µCi/g
			Cs-134	<1.7e-8	µCi/g
			Cs-137	<1.8e-8	µCi/g
			Fe-59	<3.4e-8	µCi/g
			I-131	<2.0e-8	µCi/g
			K-40	3.24e-6	µCi/g
			La-140	<1.8e-8	µCi/g
			Mn-54	<1.6e-8	µCi/g
			Nb-95	<1.7e-8	µCi/g
			Zn-65	<4.0e-8	µCi/g
			Zr-95	<2.8e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
5/26/2022	AF98344	092	Ba-140	<4.4e-8	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.3e-8	µCi/g
			Cs-134	<1.2e-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	3.16e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.2e-8	µCi/g
			Zn-65	<2.9e-8	µCi/g
			Zr-95	<2.0e-8	µCi/g
Date	**Lab**	**Station**	**Analyte**	**Result**	**Units**
Milk Samples					
3/31/2022	AF91182	090	Ba-140	<1.1e-7	µCi/g
			Be-7	5.76e-6	µCi/g
			Co-58	<2.6e-8	µCi/g
			Co-60	<2.7e-8	µCi/g
			Cs-134	<2.8e-8	µCi/g
			Cs-137	<2.7e-8	µCi/g
			Fe-59	<5.2e-8	µCi/g
			I-131	<3.2e-8	µCi/g
			K-40	2.07e-6	µCi/g
			La-140	<3.7e-8	µCi/g
			Mn-54	<2.7e-8	µCi/g
			Nb-95	<2.7e-8	µCi/g
			Zn-65	<6.0e-8	µCi/g
			Zr-95	<4.5e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Milk Samples					
9/29/2022	AG15114	090	Ba-140	<9.9e-8	µCi/g
			Be-7	5.46e-6	µCi/g
			Co-58	<2.4e-8	µCi/g
			Co-60	<2.5e-8	µCi/g
			Cs-134	<2.4e-8	µCi/g
			Cs-137	<2.4e-8	µCi/g
			Fe-59	<5.3e-8	µCi/g
			I-131	<3.9e-8	µCi/g
			K-40	3.67e-6	µCi/g
			La-140	<3.6e-8	µCi/g
			Mn-54	<2.4e-8	µCi/g
			Nb-95	<2.6e-8	µCi/g
			Pb-212	7.8e-8	µCi/g
			Tl-208	2.4e-8	µCi/g
			Zn-65	<5.4e-8	µCi/g
			Zr-95	<4.1e-8	µCi/g
Date	**Lab**	**Station**	**Analyte**	**Result**	**Units**
Sediment Samples					
1/13/2022	AF79793	088	Ba-140	<1.6e-8	µCi/g
			Co-58	<4.0e-8	µCi/g
			Co-60	<4.8e-8	µCi/g
			Cs-134	<5.1e-8	µCi/g
			Cs-137	6.3e-8	µCi/g
			Fe-59	<8.9e-8	µCi/g
			I-131	<4.9e-8	µCi/g
			K-40	9.58e-6	µCi/g
			La-140	<4.9e-8	µCi/g
			Mn-54	<4.5e-8	µCi/g
			Nb-95	<4.9e-8	µCi/g
			Pb-212	6.01e-7	µCi/g
			Pb-214	4.49e-7	µCi/g
			Tl-208	2.31e-7	µCi/g
			Zn-65	<1.3e-7	µCi/g
			Zr-95	<7.9e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
7/7/2022	AG03358	088	Ba-140	<1.1e-7	µCi/g
			Co-58	<2.8e-8	µCi/g
			Co-60	<2.7e-8	µCi/g
			Cs-134	<3.7e-8	µCi/g
			Cs-137	<3.9e-8	µCi/g
			Fe-59	<6.5e-8	µCi/g
			I-131	<3.3e-8	µCi/g
			K-40	4.78e-6	µCi/g
			La-140	<3.6e-8	µCi/g
			Mn-54	<2.9e-8	µCi/g
			Nb-95	<3.5e-8	µCi/g
			Pb-212	1.68e-7	µCi/g
			Pb-214	3.28e-7	µCi/g
			Tl-208	8.7e-8	µCi/g
			Zn-65	<9.6e-8	µCi/g
			Zr-95	<4.5e-8	µCi/g
Date	**Lab**	**Station**	**Analyte**	**Result**	**Units**
Vegetation for Milk Samples					
1/27/2022	AF81772	014	Ba-140	<8.8e-8	µCi/g
			Be-7	2.15e-6	µCi/g
			Co-58	<2.0e-8	µCi/g
			Co-60	<2.6e-8	µCi/g
			Cs-134	<2.2e-8	µCi/g
			Cs-137	<2.3e-8	µCi/g
			Fe-59	<4.4e-8	µCi/g
			I-131	<2.9e-8	µCi/g
			K-40	4.12e-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	<5.4e-8	µCi/g
			Zr-95	<3.8e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
2/25/2022	AF86354	014	Ba-140	<1.1e-7	µCi/g
			Be-7	4.63e-6	µCi/g
			Co-58	<2.2e-8	µCi/g
			Co-60	<2.1e-8	µCi/g
			Cs-134	<2.2e-8	µCi/g
			Cs-137	<2.3e-8	µCi/g
			Fe-59	<4.3e-8	µCi/g
			I-131	<3.6e-8	µCi/g
			K-40	2.40e-6	µCi/g
			La-140	<3.2e-8	µCi/g
			Mn-54	<2.1e-8	µCi/g
			Nb-95	<2.3e-8	µCi/g
			Zn-65	<4.6e-8	µCi/g
			Zr-95	<3.7e-8	µCi/g
3/31/2022	AF91183	014	Ba-140	<1.7e-7	µCi/g
			Be-7	7.14e-6	µCi/g
			Co-58	<3.9e-8	µCi/g
			Co-60	<3.9e-8	µCi/g
			Cs-134	<3.9e-8	µCi/g
			Cs-137	<4.0e-8	µCi/g
			Fe-59	<7.1e-8	µCi/g
			I-131	<5.2e-8	µCi/g
			K-40	1.70e-6	µCi/g
			La-140	<4.7e-8	µCi/g
			Mn-54	<3.8e-8	µCi/g
			Nb-95	<4.0e-8	µCi/g
			Pb-212	1.15e-7	µCi/g
			Zn-65	<8.2e-8	µCi/g
			Zr-95	<6.4e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
4/28/2022	AF94703	014	Ba-140	<9.9e-8	µCi/g
			Be-7	9.51e-6	µCi/g
			Co-58	<2.1e-8	µCi/g
			Co-60	<2.0e-8	µCi/g
			Cs-134	<2.2e-8	µCi/g
			Cs-137	<2.2e-8	µCi/g
			Fe-59	<4.6e-8	µCi/g
			I-131	<3.5e-8	µCi/g
			K-40	1.18e-6	µCi/g
			La-140	<3.2e-8	µCi/g
			Mn-54	<2.2e-8	µCi/g
			Nb-95	<2.3e-8	µCi/g
			Zn-65	<4.8e-8	µCi/g
			Zr-95	<3.7e-8	µCi/g
6/2/2022	AF98895	014	Ba-140	<1.4e-7	µCi/g
			Be-7	7.14e-6	µCi/g
			Co-58	<3.1e-8	µCi/g
			Co-60	<3.1e-8	µCi/g
			Cs-134	<3.2e-8	µCi/g
			Cs-137	<3.0e-8	µCi/g
			Fe-59	<6.7e-8	µCi/g
			I-131	<4.7e-8	µCi/g
			K-40	3.32e-6	µCi/g
			La-140	<4.4e-8	µCi/g
			Mn-54	<3.3e-8	µCi/g
			Nb-95	<3.4e-8	µCi/g
			Zn-65	<6.7e-8	µCi/g
			Zr-95	<5.6e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
6/30/2022	AG02659	014	Ba-140	<2.3e-7	µCi/g
			Be-7	7.19e-6	µCi/g
			Co-58	<4.3e-8	µCi/g
			Co-60	<4.5e-8	µCi/g
			Cs-134	<4.2e-8	µCi/g
			Cs-137	<4.2e-8	µCi/g
			Fe-59	<9.4e-8	µCi/g
			I-131	<8.2e-8	µCi/g
			K-40	1.062e-5	µCi/g
			La-140	<7.1e-8	µCi/g
			Mn-54	<4.2e-8	µCi/g
			Nb-95	<4.5e-8	µCi/g
			Zn-65	<9.8e-8	µCi/g
			Zr-95	<7.6e-8	µCi/g
7/28/2022	AG06536	014	Ba-140	<1.4e-7	µCi/g
			Be-7	6.32e-6	µCi/g
			Co-58	<2.8e-8	µCi/g
			Co-60	<3.0e-8	µCi/g
			Cs-134	<2.8e-8	µCi/g
			Cs-137	<2.9e-8	µCi/g
			Fe-59	<5.5e-8	µCi/g
			I-131	<4.5e-8	µCi/g
			K-40	2.53e-6	µCi/g
			La-140	<4.5e-8	µCi/g
			Mn-54	<3.0e-8	µCi/g
			Nb-95	<3.3e-8	µCi/g
			Zn-65	<6.4e-8	µCi/g
			Zr-95	<5.0e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
9/1/2022	AG11258	014	Ba-140	<8.1e-8	µCi/g
			Be-7	1.78e-6	µCi/g
			Co-58	<1.9e-8	µCi/g
			Co-60	<2.2e-8	µCi/g
			Cs-134	<1.9e-8	µCi/g
			Cs-137	<2.1e-8	µCi/g
			Fe-59	<4.0e-8	µCi/g
			I-131	<2.5e-8	µCi/g
			K-40	4.58e-6	µCi/g
			La-140	<2.4e-8	µCi/g
			Mn-54	<1.9e-8	µCi/g
			Nb-95	<1.9e-8	µCi/g
			Pb-212	4.4e-8	µCi/g
			Zn-65	<4.8e-8	µCi/g
			Zr-95	<3.4e-8	µCi/g
9/29/2022	AG15113	014	Ba-140	<2.0e-7	µCi/g
			Be-7	4.37e-6	µCi/g
			Co-58	<4.3e-8	µCi/g
			Co-60	<4.9e-8	µCi/g
			Cs-134	<4.2e-8	µCi/g
			Cs-137	<4.6e-8	µCi/g
			Fe-59	<9.9e-8	µCi/g
			I-131	<6.9e-8	µCi/g
			K-40	1.62e-5	µCi/g
			La-140	<5.7e-8	µCi/g
			Mn-54	<4.5e-8	µCi/g
			Nb-95	<4.9e-8	µCi/g
			Zn-65	<1.1e-7	µCi/g
			Zr-95	<8.2e-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					
12/27/2022	AG22888	014	Ba-140	<1.1e-7	µCi/g
			Be-7	3.21e-6	µCi/g
			Co-58	<2.7e-8	µCi/g
			Co-60	<2.6e-8	µCi/g
			Cs-134	<2.6e-8	µCi/g
			Cs-137	<2.8e-8	µCi/g
			Fe-59	<5.1e-8	µCi/g
			I-131	<3.6e-8	µCi/g
			K-40	6.49e-6	µCi/g
			La-140	<3.0e-8	µCi/g
			Mn-54	<2.7e-8	µCi/g
			Nb-95	<2.8e-8	µCi/g
			Pb-214	7.2e-8	µCi/g
			Tl-208	2.9e-8	µCi/g
			Zn-65	<6.1e-8	µCi/g
			Zr-95	<4.7e-8	µCi/g
6/30/2022	AG02658	090	Ba-140	<7.3e-8	µCi/g
			Be-7	6.16e-6	µCi/g
			Co-58	<1.5e-8	µCi/g
			Co-60	<1.5e-8	µCi/g
			Cs-134	<1.5e-8	µCi/g
			Cs-137	<1.5e-8	µCi/g
			Fe-59	<3.3e-8	µCi/g
			I-131	<2.7e-8	µCi/g
			K-40	2.79e-6	µCi/g
			La-140	<2.5e-8	µCi/g
			Mn-54	<1.5e-8	µCi/g
			Nb-95	<1.6e-8	µCi/g
			Pb-212	3.3e-8	µCi/g
			Zn-65	<3.3e-8	µCi/g
			Zr-95	<2.7e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
12/27/2022	AG22889	090	Ba-140	<1.7e-7	µCi/g
			Be-7	1.085e-5	µCi/g
			Co-58	<4.2e-8	µCi/g
			Co-60	<4.4e-8	µCi/g
			Cs-134	<4.5e-8	µCi/g
			Cs-137	<4.8e-8	µCi/g
			Fe-59	<8.7e-8	µCi/g
			I-131	<5.2e-8	µCi/g
			K-40	3.45e-6	µCi/g
			La-140	<4.3e-8	µCi/g
			Mn-54	<4.2e-8	µCi/g
			Nb-95	<4.5e-8	µCi/g
			Pb-214	1.68e-7	µCi/g
			Zn-65	<1.1e-7	µCi/g
			Zr-95	<7.3e-8	µCi/g

Date	Lab	Station	Analyte	Result	Units
Water Composite Samples					
1/11/2022	AF79564	085	H-3	1.410e-5	µCi/mL
4/6/2022	AF91903	085	H-3	1.350e-5	µCi/mL
7/25/2022	AG05891	085	H-3	1.600e-5	µCi/mL
10/10/2022	AG16351	085	H-3	1.410e-5	µCi/mL
1/11/2022	AF79565	086	H-3	<1.0e-6	µCi/mL
4/6/2022	AF91904	086	H-3	<1.0e-6	µCi/mL
7/26/2022	AG05892	086	H-3	<1.0e-6	µCi/mL
10/10/2022	AG16352	086	H-3	<1.0e-6	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/27/2022	AF81774	085	Ba-140	<6.3e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.3e-9	µCi/mL
			I-131	<1.9e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.5e-9	µCi/mL
			Zn-65	<3.4e-9	µCi/mL
			Zr-95	<2.6e-9	µCi/mL
			Gross Beta	1.55e-8	µCi/mL
2/25/2022	AF86352	085	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.6e-9	µCi/mL
			Fe-59	<3.4e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.5e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	1.79e-8	µCi/mL
3/31/2022	AF91180	085	Ba-140	<7.3e-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	<3.7e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.4e-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	1.60e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/28/2022	AF94704	085	Ba-140	<8.1e-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	<2.4e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.8e-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	1.41e-8	µCi/mL
6/2/2022	AF98896	085	Ba-140	<6.2e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.2e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.6e-9	µCi/mL
			Pb-212	5.1e-9	µCi/mL
			Zn-65	<3.6e-9	µCi/mL
			Zr-95	<2.7e-9	µCi/mL
			Gross Beta	1.62e-8	µCi/mL
6/30/2022	AG02660	085	Ba-140	<7.8e-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	<2.0e-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	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Pb-212	4.0e-9	µCi/mL
			Zn-65	<4.0e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	1.82e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
7/28/2022	AG06537	085	Ba-140	<8.2e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.1e-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	<2.7e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	1.74e-8	µCi/mL
9/1/2022	AG11259	085	Ba-140	<6.4e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.1e-9	µCi/mL
			I-131	<1.9e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.5e-9	µCi/mL
			Zr-95	<2.6e-9	µCi/mL
			Gross Beta	2.02e-8	µCi/mL
9/29/2022	AG15115	085	Ba-140	<6.3e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.9e-9	µCi/mL
			Cs-134	<1.7e-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	<2.5e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	1.62e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/25/2022	AG18187	085	Ba-140	<8.0e-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	<2.3e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<2.1e-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	1.76e-8	µCi/mL
11/29/2022	AG20120	085	Ba-140	<7.8e-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	<2.2e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.8e-9	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	<3.5e-9	µCi/mL
			Gross Beta	1.74e-8	µCi/mL
12/27/2022	AG22890	085	Ba-140	<7.7e-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	<2.0e-9	µCi/mL
			Fe-59	<4.0e-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	<2.0e-9	µCi/mL
			Zn-65	<4.5e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	8.6e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/27/2022	AF81773	086	Ba-140	<8.0e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<1.9e-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	<2.4e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	6.2e-9	µCi/mL
2/25/2022	AF86353	086	Ba-140	<8.4e-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	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<2.6e-9	µCi/mL
			K-40	4.9e-8	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	8.5e-9	µCi/mL
3/31/2022	AF91181	086	Ba-140	<6.2e-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	<1.6e-9	µCi/mL
			Fe-59	<3.2e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.3e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	6.4e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/28/2022	AF94705	086	Ba-140	<6.3e-9	µCi/mL
			Co-58	<1.5e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.2e-9	µCi/mL
			I-131	<1.9e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.5e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	7.9e-9	µCi/mL
6/2/2022	AF98897	086	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.6e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.2e-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	<1.7e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	8.5e-9	µCi/mL
6/30/2022	AG02661	086	Ba-140	<6.3e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.6e-9	µCi/mL
			Fe-59	<3.3e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.4e-9	µCi/mL
			Zr-95	<2.7e-9	µCi/mL
			Gross Beta	8.9e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
7/28/2022	AG06538	086	Ba-140	<6.6e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.6e-9	µCi/mL
			Fe-59	<3.4e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.3e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.4e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	7.9e-9	µCi/mL
9/1/2022	AG11260	086	Ba-140	<7.6e-9	µCi/mL
			Co-58	<1.8e-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	<3.9e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Pb-212	4.7e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	7.9e-9	µCi/mL
9/29/2022	AG15116	086	Ba-140	<8.7e-9	µCi/mL
			Co-58	<2.1e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.1e-9	µCi/mL
			Cs-137	<2.3e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.9e-9	µCi/mL
			La-140	<2.7e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Pb-212	5.2e-9	µCi/mL
			Zn-65	<4.3e-9	µCi/mL
			Zr-95	<3.7e-9	µCi/mL
			Gross Beta	1.06e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/25/2022	AG18188	086	Ba-140	<8.2e-9	µCi/mL
			Co-58	<2.1e-9	µCi/mL
			Co-60	<2.2e-9	µCi/mL
			Cs-134	<2.2e-9	µCi/mL
			Cs-137	<2.2e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.7e-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	<4.2e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	8.6e-9	µCi/mL
11/29/2022	AG20121	086	Ba-140	<6.9e-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	<1.9e-9	µCi/mL
			Fe-59	<3.4e-9	µCi/mL
			I-131	<2.1e-9	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	<3.7e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	8.2e-9	µCi/mL
12/27/2022	AG22891	086	Ba-140	<6.6e-9	µCi/mL
			Co-58	<1.7e-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	<3.5e-9	µCi/mL
			I-131	<2.2e-9	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	1.11e-8	µCi/mL

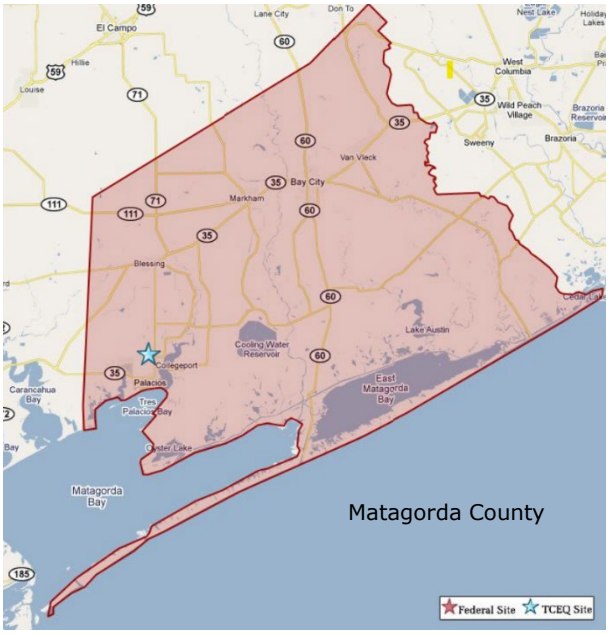
NOTE: Indicates the analysis was by alpha spectrometry, or Ra-226, analysis by radon emanation.*
*** Indicates the tritium (H-3) analysis for food product, sediment, and vegetation is reported in µCi/mL*

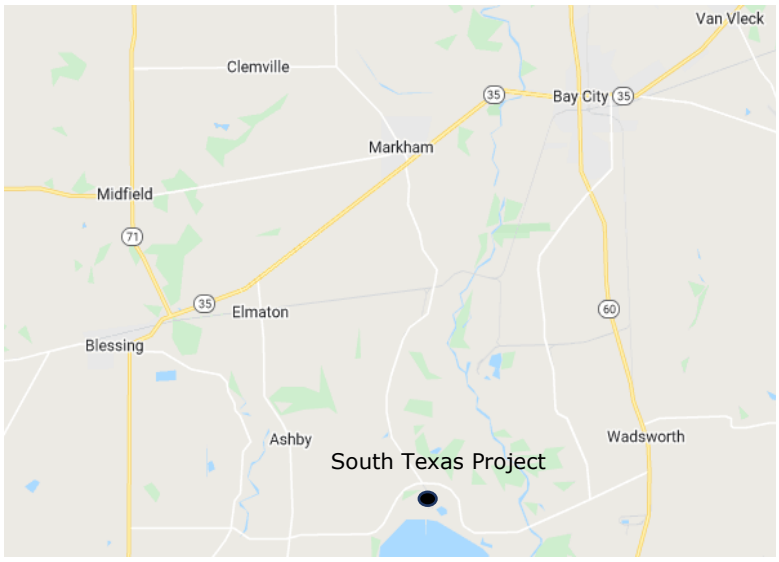
South Texas Project
Radiation Branch Site No. 012

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.

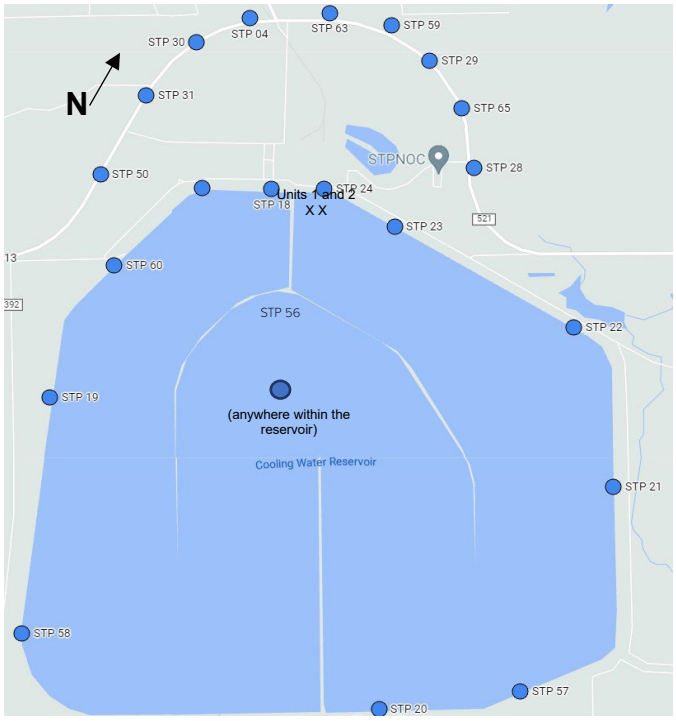
STP Nuclear Operating Company is owned by NRG Energy, Austin Energy, and City Public Service of San Antonio. STP Nuclear Operating Company manages and operates the plant for its owners, who share its energy in proportion to their ownership interest. The Radiation Branch Surveillance Program consists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

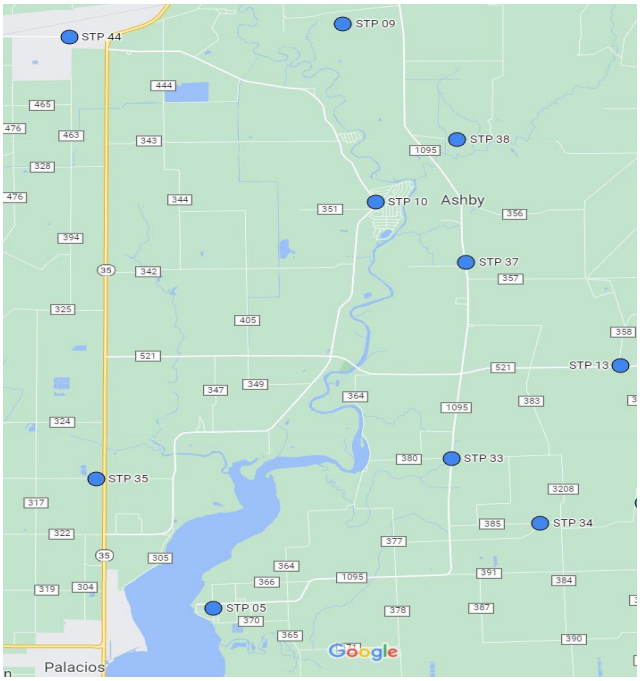
Shaded area indicates location of Matagorda County

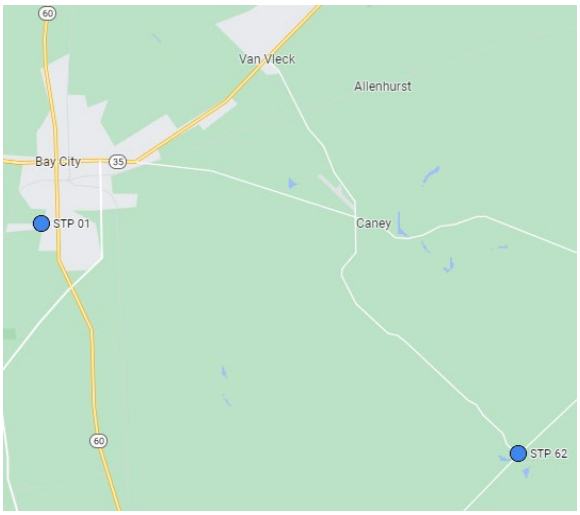


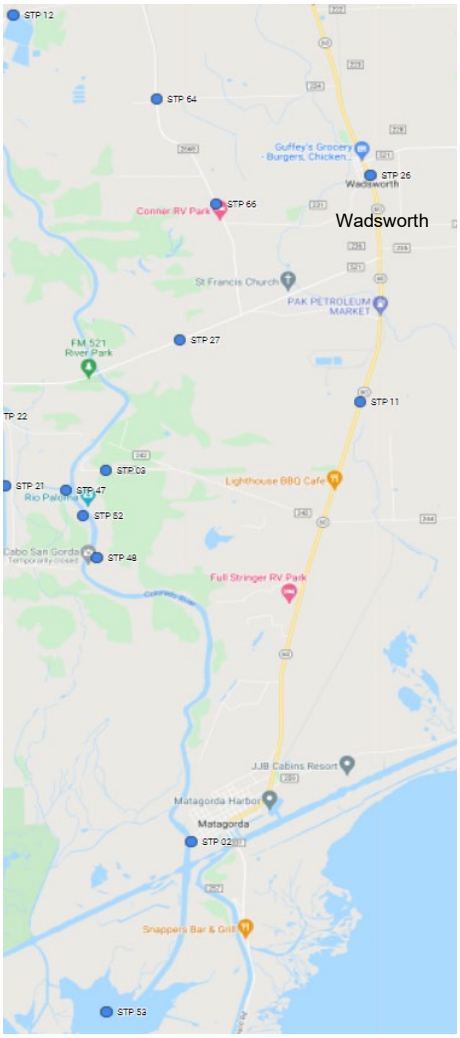


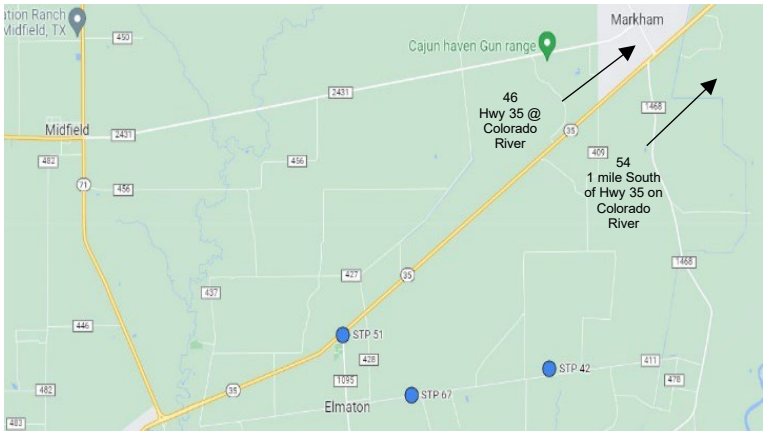
South Texas Project
Monitoring Station Locations











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	24	30	33	30	117	
2	21	30	34	30	115	
3	22	0	34	30	86	QTR 2 OSL Not Found
4	24	32	34	30	120	
5	22	29	35	29	115	
9	23	0	33	31	87	QTR 2 OSL Not Found
10	23	31	34	30	118	
11	22	30	31	31	114	
12	23	31	36	31	121	
13	23	31	35	30	119	
18	21	27	31	27	106	
19	23	30	35	30	118	
20	22	33	33	30	118	
21	22	30	34	31	117	
22	23	29	34	30	116	
23	20	28	30	28	106	
24	23	31	35	31	120	
26	20	28	31	27	106	
27	25	32	36	30	123	
28	24	31	34	31	120	
29	24	30	41	31	126	
30	24	31	33	30	118	
31	25	35	39	34	133	
33	24	31	35	32	122	
34	25	32	37	30	124	
35	24	30	34	31	119	
37	24	31	37	31	123	
38	22	30	33	28	113	
40	23	30	33	31	117	
42	27	33	38	37	135	
44	21	30	32	29	112	
50	27	36	38	35	136	
51	24	32	36	32	124	
57	22	29	31	29	111	
58	22	31	35	29	117	
59	24	33	35	31	123	
60	23	32	35	33	123	
61	22	29	33	0	84	QTR 4 OSL Not Found
62	26	35	37	34	132	
63	25	32	33	31	121	
64	23	30	35	32	120	
65	24	32	34	31	121	
66	24	32	33	30	119	
67	24	31	34	31	120	

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					
1/11/2022	AF79560	030	Ba-140	<9.3e-6	µCi/mL
			Be-7	4.25e-4	µCi/mL
			Co-58	<2.8e-6	µCi/mL
			Co-60	<3.1e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<3.0e-6	µCi/mL
			Fe-59	<5.0e-6	µCi/mL
			I-131	<3.0e-6	µCi/mL
			La-140	<3.0e-6	µCi/mL
			Mn-54	<2.6e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<5.4e-6	µCi/mL
			Zr-95	<4.9e-6	µCi/mL
4/6/2022	AF91907	030	Ba-140	<9.3e-6	µCi/mL
			Be-7	3.28e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.9e-6	µCi/mL
			Cs-134	<2.5e-6	µCi/mL
			Cs-137	<3.1e-6	µCi/mL
			Fe-59	<4.4e-6	µCi/mL
			I-131	<2.8e-6	µCi/mL
			La-140	<3.2e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.8e-6	µCi/mL
			Zn-65	<5.4e-6	µCi/mL
			Zr-95	<4.7e-6	µCi/mL
7/25/2022	AG05887	030	Ba-140	<8.6e-6	µCi/mL
			Be-7	3.84e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<3.0e-6	µCi/mL
			Cs-134	<2.4e-6	µCi/mL
			Cs-137	<3.1e-6	µCi/mL
			Fe-59	<4.6e-6	µCi/mL
			I-131	<2.6e-6	µCi/mL
			La-140	<2.9e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.5e-6	µCi/mL
			Zn-65	<5.7e-6	µCi/mL
			Zr-95	<4.2e-6	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Composite Samples					
10/10/2022	AG16355	030	Ba-140	<9.0e-6	µCi/mL
			Be-7	3.41e-4	µCi/mL
			Co-58	<2.6e-6	µCi/mL
			Co-60	<2.8e-6	µCi/mL
			Cs-134	<2.3e-6	µCi/mL
			Cs-137	<3.1e-6	µCi/mL
			Fe-59	<4.5e-6	µCi/mL
			I-131	<2.8e-6	µCi/mL
			K-40	5.1e-5	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	<5.8e-6	µCi/mL
			Zr-95	<4.7e-6	µCi/mL
1/11/2022	AF79561	035	Ba-140	<9.1e-6	µCi/mL
			Be-7	3.80e-4	µCi/mL
			Co-58	<2.7e-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	<2.9e-6	µCi/mL
			La-140	<2.8e-6	µCi/mL
			Mn-54	<2.7e-6	µCi/mL
			Nb-95	<2.7e-6	µCi/mL
			Zn-65	<5.8e-6	µCi/mL
			Zr-95	<4.5e-6	µCi/mL
4/6/2022	AF91908	035	Ba-140	<4.1e-6	µCi/mL
			Be-7	3.28e-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	<1.5e-6	µCi/mL
			Fe-59	<2.6e-6	µCi/mL
			I-131	<1.1e-6	µCi/mL
			K-40	3.2e-5	µCi/mL
			La-140	<1.7e-6	µCi/mL
			Mn-54	<1.3e-6	µCi/mL
			Nb-95	<1.3e-6	µCi/mL
			Zn-65	<3.3e-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					
7/25/2022	AG05888	035	Ba-140	<4.0e-6	µCi/mL
			Be-7	4.03e-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	<1.4e-6	µCi/mL
			Fe-59	<2.7e-6	µCi/mL
			I-131	<1.2e-6	µCi/mL
			K-40	3.4e-5	µCi/mL
			La-140	<1.9e-6	µCi/mL
			Mn-54	<1.3e-6	µCi/mL
			Nb-95	<1.3e-6	µCi/mL
			Zn-65	<3.2e-6	µCi/mL
			Zr-95	<2.1e-6	µCi/mL
10/10/2022	AG16356	035	Ba-140	<3.7e-6	µCi/mL
			Be-7	4.11e-4	µCi/mL
			Co-58	<1.3e-6	µCi/mL
			Co-60	<1.7e-6	µCi/mL
			Cs-134	<1.3e-6	µCi/mL
			Cs-137	<1.4e-6	µCi/mL
			Fe-59	<2.9e-6	µCi/mL
			I-131	<1.2e-6	µCi/mL
			K-40	4.6e-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	<3.1e-6	µCi/mL
			Zr-95	<2.4e-6	µCi/mL

South Texas Project
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
1/7/2022	AF79352	030	I-131	<2.4e-15	µCi/mL
			K-40	2.73e-13	µCi/mL
1/14/2022	AF80331	030	I-131	<6.2e-15	µCi/mL
			K-40	2.09e-13	µCi/mL
1/20/2022	AF80816	030	I-131	<2.2e-15	µCi/mL
			K-40	2.21e-13	µCi/mL
2/1/2022	AF82711	030	I-131	<7.0e-15	µCi/mL
			K-40	1.47e-13	µCi/mL
2/7/2022	AF83028	030	I-131	<8.5e-15	µCi/mL
			K-40	2.64e-13	µCi/mL
2/11/2022	AF84408	030	I-131	<4.9e-15	µCi/mL
			K-40	1.80e-13	µCi/mL
2/16/2022	AF85026	030	I-131	<6.2e-15	µCi/mL
			K-40	1.93e-13	µCi/mL
2/25/2022	AF86347	030	I-131	<6.2e-15	µCi/mL
			K-40	2.01e-13	µCi/mL
3/2/2022	AF87071	030	I-131	<5.0e-15	µCi/mL
			K-40	1.98e-13	µCi/mL
3/10/2022	AF88533	030	I-131	<4.6e-15	µCi/mL
			K-40	1.57e-13	µCi/mL
3/17/2022	AF89444	030	I-131	<2.6e-15	µCi/mL
			K-40	2.97e-13	µCi/mL
3/24/2022	AF90336	030	I-131	<2.4e-15	µCi/mL
			K-40	2.66e-13	µCi/mL
3/31/2022	AF91416	030	I-131	<2.3e-15	µCi/mL
			K-40	2.79e-13	µCi/mL
4/6/2022	AF92099	030	I-131	<6.7e-15	µCi/mL
			K-40	2.89e-13	µCi/mL
			Pb-212	1.40e-14	µCi/mL
4/19/2022	AF93578	030	I-131	<7.2e-15	µCi/mL
			K-40	1.84e-13	µCi/mL
4/21/2022	AF93935	030	I-131	<4.5e-15	µCi/mL
			K-40	1.58e-13	µCi/mL
4/27/2022	AF94531	030	I-131	<6.5e-15	µCi/mL
			K-40	2.74e-13	µCi/mL
5/10/2022	AF96117	030	I-131	<7.3e-15	µCi/mL
			K-40	1.40e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
5/12/2022	AF96573	030	I-131	<2.4e-15	µCi/mL
			K-40	2.79e-13	µCi/mL
5/19/2022	AF97601	030	I-131	<2.3e-15	µCi/mL
			K-40	2.40e-13	µCi/mL
5/26/2022	AF98563	030	I-131	<2.4e-15	µCi/mL
			K-40	2.68e-13	µCi/mL
6/6/2022	AF99487	030	I-131	<6.5e-15	µCi/mL
			K-40	8e-15	µCi/mL
6/9/2022	AG00134	030	I-131	<2.2e-15	µCi/mL
			K-40	2.60e-13	µCi/mL
6/16/2022	AG01092	030	I-131	<5.6e-15	µCi/mL
			K-40	2.34e-13	µCi/mL
6/24/2022	AG02242	030	I-131	<4.9e-15	µCi/mL
			K-40	2.06e-13	µCi/mL
6/30/2022	AG02900	030	I-131	<5.8e-15	µCi/mL
			K-40	2.19e-13	µCi/mL
7/7/2022	AG03558	030	I-131	<5.5e-15	µCi/mL
			K-40	2.10e-13	µCi/mL
7/15/2022	AG04865	030	I-131	<4.8e-15	µCi/mL
			K-40	1.74e-13	µCi/mL
7/13/2022	AG05411	030	I-131	<5.7e-15	µCi/mL
			K-40	2.42e-13	µCi/mL
7/28/2022	AG06731	030	I-131	<4.5e-15	µCi/mL
			K-40	2.11e-13	µCi/mL
8/4/2022	AG07445	030	I-131	<2.7e-15	µCi/mL
			K-40	2.75e-13	µCi/mL
8/11/2022	AG08714	030	I-131	<1.8e-15	µCi/mL
			K-40	1.97e-13	µCi/mL
8/18/2022	AG09817	030	I-131	<4.7e-15	µCi/mL
			K-40	5.77e-13	µCi/mL
8/26/2022	AG11224	030	I-131	<2.5e-15	µCi/mL
			K-40	2.31e-13	µCi/mL
9/2/2022	AG11264	030	I-131	<2.4e-15	µCi/mL
			K-40	2.70e-13	µCi/mL
9/9/2022	AG12251	030	I-131	<2.4e-15	µCi/mL
			K-40	2.39e-13	µCi/mL
9/14/2022	AG12761	030	I-131	<2.6e-15	µCi/mL
			K-40	3.08e-13	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
9/21/2022	AG13994	030	I-131	<9.3e-15	µCi/mL
			K-40	3.5e-13	µCi/mL
9/29/2022	AG15340	030	I-131	<2.0e-15	µCi/mL
			K-40	1.86e-13	µCi/mL
10/4/2022	AG16202	030	I-131	<2.3e-15	µCi/mL
			K-40	2.20e-13	µCi/mL
10/13/2022	AG16901	030	I-131	<2.1e-15	µCi/mL
			K-40	2.58e-13	µCi/mL
10/20/2022	AG17677	030	I-131	<2.3e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
10/25/2022	AG18472	030	I-131	<6.2e-15	µCi/mL
			K-40	1.62e-13	µCi/mL
			Pb-212	1.40e-14	µCi/mL
11/2/2022	AG18495	030	I-131	<2.2e-14	µCi/mL
			K-40	4.2e-13	µCi/mL
11/8/2022	AG18524	030	I-131	<5.8e-15	µCi/mL
			K-40	2.79e-13	µCi/mL
11/15/2022	AG19086	030	I-131	<5.3e-15	µCi/mL
			K-40	2.22e-13	µCi/mL
11/22/2022	AG19745	030	I-131	<7.4e-15	µCi/mL
			K-40	2.63e-13	µCi/mL
11/28/2022	AG20354	030	I-131	<2.9e-15	µCi/mL
			K-40	3.36e-13	µCi/mL
12/6/2022	AG21199	030	I-131	<1.9e-15	µCi/mL
			K-40	2.23e-13	µCi/mL
12/13/2022	AG21857	030	I-131	<5.4e-15	µCi/mL
			K-40	2.09e-13	µCi/mL
			Tl-208	8.2e-15	µCi/mL
12/19/2022	AG22455	030	I-131	<2.5e-15	µCi/mL
			K-40	2.95e-13	µCi/mL
12/27/2022	AG23249	030	I-131	<9.4e-15	µCi/mL
			K-40	1.98e-13	µCi/mL
1/7/2022	AF79350	035	I-131	<5.4e-15	µCi/mL
			K-40	1.88e-13	µCi/mL
1/14/2022	AF80329	035	I-131	<6.3e-15	µCi/mL
			K-40	1.99e-13	µCi/mL
1/20/2022	AF80814	035	I-131	<5.8e-15	µCi/mL
			K-40	2.21e-13	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
2/1/2022	AF82709	035	I-131	<6.4e-15	µCi/mL
			K-40	1.90e-13	µCi/mL
2/7/2022	AF83026	035	I-131	<9.0e-15	µCi/mL
			K-40	2.59e-13	µCi/mL
2/11/2022	AF84406	035	I-131	<5.0e-15	µCi/mL
			K-40	1.89e-13	µCi/mL
2/16/2022	AF85024	035	I-131	<6.4e-15	µCi/mL
			K-40	2.75e-13	µCi/mL
2/25/2022	AF86345	035	I-131	<5.9e-15	µCi/mL
			K-40	2.10e-13	µCi/mL
3/2/2022	AF87069	035	I-131	<5.0e-15	µCi/mL
			K-40	2.43e-13	µCi/mL
3/10/2022	AF88531	035	I-131	<5.0e-15	µCi/mL
			K-40	2.19e-13	µCi/mL
			Pb-214	1.35e-14	µCi/mL
3/17/2022	AF89442	035	I-131	<7.0e-15	µCi/mL
			K-40	2.61e-13	µCi/mL
3/24/2022	AF90334	035	I-131	<3.7e-15	µCi/mL
			K-40	2.29e-13	µCi/mL
3/31/2022	AF91414	035	I-131	<6.1e-15	µCi/mL
			K-40	2.29e-13	µCi/mL
4/6/2022	AF92097	035	I-131	<6.6e-15	µCi/mL
			K-40	2.44e-13	µCi/mL
4/19/2022	AF93576	035	I-131	<8.0e-15	µCi/mL
			K-40	2.17e-13	µCi/mL
4/21/2022	AF93933	035	I-131	<3.6e-15	µCi/mL
			K-40	2.20e-13	µCi/mL
4/27/2022	AF94529	035	I-131	<6.0e-15	µCi/mL
			K-40	2.33e-13	µCi/mL
5/10/2022	AF96115	035	I-131	<7.4e-15	µCi/mL
			K-40	1.70e-13	µCi/mL
			Pb-212	1.19e-14	µCi/mL
5/12/2022	AF96571	035	I-131	<6.2e-15	µCi/mL
			K-40	8.0e-14	µCi/mL
5/19/2022	AF97599	035	I-131	<5.9e-15	µCi/mL
			K-40	1.92e-13	µCi/mL
5/26/2022	AF98561	035	I-131	<3.8e-15	µCi/mL
			K-40	3.40e-13	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
6/6/2022	AF99485	035	I-131	<6.4e-15	µCi/mL
			K-40	2.99e-13	µCi/mL
6/9/2022	AG00132	035	I-131	<5.3e-15	µCi/mL
			K-40	2.09e-13	µCi/mL
6/16/2022	AG01090	035	I-131	<5.0e-15	µCi/mL
			K-40	2.39e-13	µCi/mL
6/24/2022	AG02240	035	I-131	<5.9e-15	µCi/mL
			K-40	2.62e-13	µCi/mL
6/30/2022	AG02898	035	I-131	<2.5e-15	µCi/mL
			K-40	2.73e-13	µCi/mL
7/7/2022	AG03556	035	I-131	<2.4e-15	µCi/mL
			K-40	2.52e-13	µCi/mL
7/15/2022	AG04863	035	I-131	<2.7e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
7/20/2022	AG05412	035	I-131	<4.4e-15	µCi/mL
			K-40	1.93e-13	µCi/mL
7/28/2022	AG06729	035	I-131	<5.7e-15	µCi/mL
			K-40	2.27e-13	µCi/mL
8/4/2022	AG07443	035	I-131	<4.6e-15	µCi/mL
			K-40	3.25e-13	µCi/mL
8/11/2022	AG08712	035	I-131	<4.8e-15	µCi/mL
			K-40	2.58e-13	µCi/mL
8/18/2022	AG09815	035	I-131	<5.5e-15	µCi/mL
			K-40	1.92e-13	µCi/mL
8/26/2022	AG11222	035	I-131	<5.6e-15	µCi/mL
			K-40	2.48e-13	µCi/mL
9/2/2022	AG11262	035	I-131	<5.8e-15	µCi/mL
			K-40	2.03e-13	µCi/mL
9/9/2022	AG12249	035	I-131	<5.7e-15	µCi/mL
			K-40	1.92e-13	µCi/mL
9/14/2022	AG12759	035	I-131	<6.1e-15	µCi/mL
			K-40	2.76e-13	µCi/mL
9/21/2022	AG13992	035	I-131	<5.2e-15	µCi/mL
			K-40	2.16e-13	µCi/mL
9/29/2022	AG15338	035	I-131	<4.9e-15	µCi/mL
			K-40	1.47e-13	µCi/mL
10/6/2022	AG16200	035	I-131	<5.5e-15	µCi/mL
			K-40	2.55e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Iodine Samples					
10/13/2022	AG16899	035	I-131	<5.2e-15	µCi/mL
			K-40	1.87e-13	µCi/mL
10/20/2022	AG17675	035	I-131	<6.0e-15	µCi/mL
			K-40	2.55e-13	µCi/mL
10/25/2022	AG18470	035	I-131	<5.2e-15	µCi/mL
			K-40	2.41e-13	µCi/mL
11/2/2022	AG18493	035	I-131	<7.9e-15	µCi/mL
			K-40	2.02e-13	µCi/mL
11/8/2022	AG18522	035	I-131	<8.8e-15	µCi/mL
			K-40	2.78e-13	µCi/mL
11/15/2022	AG19084	035	I-131	<5.3e-15	µCi/mL
			K-40	2.23e-13	µCi/mL
			Tl-208	8.2e-15	µCi/mL
11/22/2022	AG19743	035	I-131	<7.2e-15	µCi/mL
			K-40	3.78e-13	µCi/mL
			Pb-212	2.85e-14	µCi/mL
			Tl-208	9.9e-15	µCi/mL
11/28/2022	AG20352	035	I-131	<6.8e-15	µCi/mL
			K-40	4.88e-13	µCi/mL
			Pb-212	1.21e-14	µCi/mL
12/6/2022	AG21197	035	I-131	<4.3e-15	µCi/mL
			K-40	3.79e-13	µCi/mL
12/13/2022	AG21855	035	I-131	<5.3e-15	µCi/mL
			K-40	2.28e-13	µCi/mL
12/19/2022	AG22453	035	I-131	<6.4e-15	µCi/mL
			K-40	1.84e-13	µCi/mL
12/27/2022	AG23247	035	I-131	<9.0e-15	µCi/mL
			K-40	1.28e-13	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
1/7/2022	AF79351	030	Gross Beta	3.30e-14	µCi/mL
1/14/2022	AF80330	030	Gross Beta	3.15e-14	µCi/mL
1/20/2022	AF80815	030	Gross Beta	2.54e-14	µCi/mL
2/1/2022	AF82710	030	Gross Beta	2.88e-14	µCi/mL
2/7/2022	AF83027	030	Gross Beta	2.59e-14	µCi/mL
2/11/2022	AF84407	030	Gross Beta	2.00e-14	µCi/mL
2/16/2022	AF85025	030	Gross Beta	2.36e-14	µCi/mL
2/25/2022	AF86346	030	Gross Beta	2.19e-14	µCi/mL
3/2/2022	AF87070	030	Gross Beta	2.52e-14	µCi/mL
3/10/2022	AF88532	030	Gross Beta	2.79e-14	µCi/mL
3/17/2022	AF89443	030	Gross Beta	2.39e-14	µCi/mL
3/24/2022	AF90335	030	Gross Beta	2.04e-14	µCi/mL
3/31/2022	AF91415	030	Gross Beta	2.39e-14	µCi/mL
4/6/2022	AF92098	030	Gross Beta	2.58e-14	µCi/mL
4/19/2022	AF93577	030	Gross Beta	1.89e-14	µCi/mL
4/21/2022	AF93934	030	Gross Beta	1.74e-14	µCi/mL
4/27/2022	AF94530	030	Gross Beta	2.33e-14	µCi/mL
5/10/2022	AF96116	030	Gross Beta	2.17e-14	µCi/mL
5/12/2022	AF96572	030	Gross Beta	1.88e-14	µCi/mL
5/19/2022	AF97600	030	Gross Beta	2.41e-14	µCi/mL
5/26/2022	AF98562	030	Gross Beta	2.22e-14	µCi/mL
6/6/2022	AF99486	030	Gross Beta	2.00e-14	µCi/mL
6/9/2022	AG00133	030	Gross Beta	1.63e-14	µCi/mL
6/16/2022	AG01091	030	Gross Beta	2.20e-14	µCi/mL
6/24/2022	AG02241	030	Gross Beta	2.69e-14	µCi/mL
6/30/2022	AG02899	030	Gross Beta	2.45e-14	µCi/mL
7/7/2022	AG03557	030	Gross Beta	1.79e-14	µCi/mL
7/15/2022	AG04864	030	Gross Beta	1.59e-14	µCi/mL
7/20/2022	AG05413	030	Gross Beta	2.47e-14	µCi/mL
7/28/2022	AG06730	030	Gross Beta	2.18e-14	µCi/mL
8/4/2022	AG07444	030	Gross Beta	1.77e-14	µCi/mL
8/11/2022	AG08713	030	Gross Beta	1.85e-14	µCi/mL
8/18/2022	AG09816	030	Gross Beta	1.93e-14	µCi/mL
8/26/2022	AG11223	030	Gross Beta	1.67e-14	µCi/mL
9/2/2022	AG11263	030	Gross Beta	1.050e-14	µCi/mL
9/9/2022	AG12250	030	Gross Beta	1.37e-14	µCi/mL
9/14/2022	AG12760	030	Gross Beta	2.75e-14	µCi/mL
9/21/2022	AG13993	030	Gross Beta	4.16e-14	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
9/29/2022	AG15339	030	Gross Beta	3.13e-14	µCi/mL
10/6/2022	AG16201	030	Gross Beta	3.26e-14	µCi/mL
10/13/2022	AG16900	030	Gross Beta	5.12e-14	µCi/mL
10/20/2022	AG17676	030	Gross Beta	2.86e-14	µCi/mL
10/25/2022	AG18471	030	Gross Beta	2.75e-14	µCi/mL
11/2/2022	AG18494	030	Gross Beta	3.68e-14	µCi/mL
11/8/2022	AG18523	030	Gross Beta	2.25e-14	µCi/mL
11/22/2022	AG19085	030	Gross Beta	2.53e-14	µCi/mL
11/22/2022	AG19744	030	Gross Beta	3.55e-14	µCi/mL
11/28/2022	AG20353	030	Gross Beta	3.72e-14	µCi/mL
12/6/2022	AG21198	030	Gross Beta	1.91e-14	µCi/mL
12/13/2022	AG21856	030	Gross Beta	2.45e-14	µCi/mL
12/19/2022	AG22454	030	Gross Beta	2.58e-14	µCi/mL
12/27/2022	AG23248	030	Gross Beta	2.33e-14	µCi/mL
1/7/2022	AF79349	035	Gross Beta	3.23e-14	µCi/mL
1/14/2022	AF80328	035	Gross Beta	3.04e-14	µCi/mL
1/20/2022	AF80813	035	Gross Beta	2.48e-14	µCi/mL
2/1/2022	AF82708	035	Gross Beta	2.89e-14	µCi/mL
2/7/2022	AF83025	035	Gross Beta	2.76e-14	µCi/mL
2/11/2022	AF84405	035	Gross Beta	2.05e-14	µCi/mL
2/16/2022	AF85023	035	Gross Beta	2.46e-14	µCi/mL
2/25/2022	AF86344	035	Gross Beta	2.12e-14	µCi/mL
3/2/2022	AF87068	035	Gross Beta	2.49e-14	µCi/mL
3/10/2022	AF88530	035	Gross Beta	3.23e-14	µCi/mL
3/17/2022	AF89441	035	Gross Beta	2.79e-14	µCi/mL
3/24/2022	AF90333	035	Gross Beta	2.03e-14	µCi/mL
3/31/2022	AF91413	035	Gross Beta	2.31e-14	µCi/mL
4/6/2022	AF92096	035	Gross Beta	2.83e-14	µCi/mL
4/21/2022	AF93932	035	Gross Beta	1.83e-14	µCi/mL
4/27/2022	AF94528	035	Gross Beta	2.05e-14	µCi/mL
5/10/2022	AF96114	035	Gross Beta	2.09e-14	µCi/mL
5/12/2022	AF96570	035	Gross Beta	1.94e-14	µCi/mL
5/19/2022	AF97598	035	Gross Beta	2.54e-14	µCi/mL
5/26/2022	AF98560	035	Gross Beta	2.40e-14	µCi/mL
6/6/2022	AF99484	035	Gross Beta	2.01e-14	µCi/mL
6/9/2022	AG00131	035	Gross Beta	1.58e-14	µCi/mL
6/16/2022	AG01089	035	Gross Beta	2.44e-14	µCi/mL
6/24/2022	AG02239	035	Gross Beta	2.75e-14	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Air Particulate Samples					
6/30/2022	AG02897	035	Gross Beta	2.76e-14	µCi/mL
7/7/2022	AG03555	035	Gross Beta	2.02e-14	µCi/mL
7/15/2022	AG04862	035	Gross Beta	1.60e-14	µCi/mL
7/20/2022	AG05410	035	Gross Beta	2.23e-14	µCi/mL
7/28/2022	AG06728	035	Gross Beta	2.36e-14	µCi/mL
8/4/2022	AG07442	035	Gross Beta	1.80e-14	µCi/mL
8/11/2022	AG08711	035	Gross Beta	1.83e-14	µCi/mL
8/18/2022	AG09814	035	Gross Beta	1.68e-14	µCi/mL
8/26/2022	AG11221	035	Gross Beta	1.68e-14	µCi/mL
9/2/2022	AG11261	035	Gross Beta	1.030e-14	µCi/mL
9/9/2022	AG12248	035	Gross Beta	1.36e-14	µCi/mL
9/14/2022	AG12758	035	Gross Beta	2.69e-14	µCi/mL
9/21/2022	AG13991	035	Gross Beta	3.21e-14	µCi/mL
9/29/2022	AG15337	035	Gross Beta	3.20e-14	µCi/mL
10/6/2022	AG16199	035	Gross Beta	3.44e-14	µCi/mL
10/13/2022	AG16898	035	Gross Beta	5.12e-14	µCi/mL
10/20/2022	AG17674	035	Gross Beta	2.92e-14	µCi/mL
10/25/2022	AG18469	035	Gross Beta	2.83e-14	µCi/mL
11/2/2022	AG18492	035	Gross Beta	2.96e-14	µCi/mL
11/8/2022	AG18521	035	Gross Beta	2.12e-14	µCi/mL
11/15/2022	AG19083	035	Gross Beta	2.39e-14	µCi/mL
11/22/2022	AG19742	035	Gross Beta	3.67e-14	µCi/mL
11/28/2022	AG20351	035	Gross Beta	3.69e-14	µCi/mL
12/6/2022	AG21196	035	Gross Beta	2.35e-14	µCi/mL
12/13/2022	AG21854	035	Gross Beta	2.19e-14	µCi/mL
12/19/2022	AG22452	035	Gross Beta	2.59e-14	µCi/mL
12/27/2022	AG23246	035	Gross Beta	2.40e-14	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
6/2/2022	AF99191	004	Ba-140	<6.1e-8	µCi/g
			Be-7	1.648e-6	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.3e-8	µCi/g
			Cs-134	<1.2e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<2.6e-8	µCi/g
			I-131	<2.3e-8	µCi/g
			K-40	2.08e-6	µCi/g
			La-140	<1.8e-8	µCi/g
			Mn-54	<1.2e-8	µCi/g
			Nb-95	<1.3e-8	µCi/g
			Zn-65	<2.8e-8	µCi/g
			Zr-95	<2.1e-8	µCi/g
10/20/2022	AG17673	004	Ba-140	<5.7e-8	µCi/g
			Be-7	5.5e-7	µCi/g
			Bi-212	6.6e-7	µCi/g
			Co-58	<1.6e-8	µCi/g
			Co-60	<1.7e-8	µCi/g
			Cs-134	<1.6e-8	µCi/g
			Cs-137	<1.7e-8	µCi/g
			Fe-59	<3.3e-8	µCi/g
			I-131	<1.9e-8	µCi/g
			K-40	4.46e-6	µCi/g
			La-140	<2.1e-8	µCi/g
			Mn-54	<1.5e-8	µCi/g
			Nb-95	<1.6e-8	µCi/g
			Pb-212	6.02e-7	µCi/g
			Tl-208	2.22e-7	µCi/g
			Zn-65	<3.6e-8	µCi/g
			Zr-95	<2.8e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
3/31/2022	AF91410	030	Ba-140	<5.3e-8	µCi/g
			Be-7	9.9e-7	µCi/g
			Co-58	<1.2e-8	µCi/g
			Co-60	<1.4e-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	<1.8e-8	µCi/g
			K-40	5.25e-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	<3.2e-8	µCi/g
			Zr-95	<2.2e-8	µCi/g
3/31/2022	AF91411	035	Ba-140	<5.8e-8	µCi/g
			Be-7	5.06e-7	µCi/g
			Co-58	<1.3e-8	µCi/g
			Co-60	<1.4e-8	µCi/g
			Cs-134	<1.2e-8	µCi/g
			Cs-137	<1.3e-8	µCi/g
			Fe-59	<3.0e-8	µCi/g
			I-131	<1.9e-8	µCi/g
			K-40	5.40e-6	µCi/g
			La-140	<1.5e-8	µCi/g
			Mn-54	<1.3e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Zn-65	<3.0e-8	µCi/g
			Zr-95	<2.1e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
6/2/2022	AF99190	035	Ba-140	<8.0e-8	µCi/g
			Be-7	1.77e-6	µCi/g
			Co-58	<1.6e-8	µCi/g
			Co-60	<1.7e-8	µCi/g
			Cs-134	<1.6e-8	µCi/g
			Cs-137	<1.6e-8	µCi/g
			Fe-59	<3.5e-8	µCi/g
			I-131	<2.8e-8	µCi/g
			K-40	2.51e-6	µCi/g
			La-140	<2.7e-8	µCi/g
			Mn-54	<1.7e-8	µCi/g
			Nb-95	<1.8e-8	µCi/g
			Zn-65	<3.6e-8	µCi/g
			Zr-95	<2.9e-8	µCi/g
8/24/2022	AG10651	035	Ba-140	<6.0e-8	µCi/mL
			Be-7	6.13e-7	µCi/mL
			Co-58	<1.5e-8	µCi/mL
			Co-60	<1.8e-8	µCi/mL
			Cs-134	<1.5e-8	µCi/mL
			Cs-137	<1.6e-8	µCi/mL
			Fe-59	<3.5e-8	µCi/mL
			I-131	<1.7e-8	µCi/mL
			K-40	4.53e-6	µCi/mL
			La-140	<2.0e-8	µCi/mL
			Mn-54	<1.7e-8	µCi/mL
			Nb-95	<1.6e-8	µCi/mL
			Zn-65	<3.8e-8	µCi/mL
			Zr-95	<2.8e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Food Product Samples					
10/20/2022	AG17672	035	Ba-140	<4.6e-8	µCi/g
			Be-7	4.22e-7	µCi/g
			Co-58	<1.4e-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	<3.1e-8	µCi/g
			I-131	<1.5e-8	µCi/g
			K-40	7.10e-6	µCi/g
			La-140	<1.6e-8	µCi/g
			Mn-54	<1.4e-8	µCi/g
			Nb-95	<1.4e-8	µCi/g
			Pb-212	1.12e-7	µCi/g
			Tl-208	4.72e-8	µCi/g
			Zn-65	<3.5e-8	µCi/g
			Zr-95	<2.4e-8	µCi/g
8/24/2022	AG10650	063	Ba-140	<5.5e-8	µCi/mL
			Be-7	4.00e-7	µCi/mL
			Co-58	<1.4e-8	µCi/mL
			Co-60	<1.7e-8	µCi/mL
			Cs-134	<1.4e-8	µCi/mL
			Cs-137	<1.5e-8	µCi/mL
			Fe-59	<3.1e-8	µCi/mL
			I-131	<1.7e-8	µCi/mL
			K-40	4.79e-6	µCi/mL
			La-140	<1.6e-8	µCi/mL
			Mn-54	<1.4e-8	µCi/mL
			Nb-95	<1.4e-8	µCi/mL
			Pb-212	6.4e-8	µCi/mL
			Zn-65	<3.4e-8	µCi/mL
			Zr-95	<2.3e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Fish Samples					
3/23/2022	AF90095	053	Ba-140	<6.7e-8	µCi/g
			Co-58	<1.3e-8	µCi/g
			Co-60	<1.4e-8	µCi/g
			Cs-134	<1.4e-8	µCi/g
			Cs-137	<1.4e-8	µCi/g
			Fe-59	<2.8e-8	µCi/g
			I-131	<2.3e-8	µCi/g
			K-40	6.5e-7	µCi/g
			La-140	<2.1e-8	µCi/g
			Mn-54	<1.4e-8	µCi/g
			Nb-95	<1.5e-8	µCi/g
			Zn-65	<3.0e-8	µCi/g
			Zr-95	<2.3e-8	µCi/g
11/30/2022	AG20767	053	Ba-140	<3.7e-8	µCi/g
			Co-58	<7.5e-9	µCi/g
			Co-60	<8.8e-9	µCi/g
			Cs-134	<8.3e-9	µCi/g
			Cs-137	<7.9e-9	µCi/g
			Fe-59	<1.7e-8	µCi/g
			I-131	<1.4e-8	µCi/g
			K-40	3.50e-7	µCi/g
			La-140	<1.3e-8	µCi/g
			Mn-54	<7.8e-9	µCi/g
			Nb-95	<8.8e-9	µCi/g
			Zn-65	<1.9e-8	µCi/g
			Zr-95	<1.4e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
3/30/2022	AF91141	052	Ba-140	<2.4e-7	µCi/g
			Bi-214	7.87e-7	µCi/g
			Co-58	<4.4e-8	µCi/g
			Co-60	<5.1e-8	µCi/g
			Cs-134	<5.8e-8	µCi/g
			Cs-137	<5.7e-8	µCi/g
			Fe-59	<1.1e-7	µCi/g
			I-131	<8.2e-8	µCi/g
			K-40	1.23e-5	µCi/g
			La-140	<7.1e-8	µCi/g
			Mn-54	<5.0e-8	µCi/g
			Nb-95	<6.4e-8	µCi/g
			Pb-212	7.30e-7	µCi/g
			Pb-214	7.07e-7	µCi/g
			Tl-208	3.00e-7	µCi/g
			Zn-65	<1.6e-7	µCi/g

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
3/31/2022	AF91412	004	Ba-140	<3.9e-8	µCi/g
			Be-7	1.97e-7	µCi/g
			Co-58	<8.2e-9	µCi/g
			Co-60	<9.2e-9	µCi/g
			Cs-134	<8.2e-9	µCi/g
			Cs-137	<8.6e-9	µCi/g
			Fe-59	<2.1e-8	µCi/g
			I-131	<1.3e-8	µCi/g
			K-40	3.68e-6	µCi/g
			La-140	<1.1e-8	µCi/g
			Mn-54	<8.9e-9	µCi/g
			Nb-95	<9.1e-9	µCi/g
			Zn-65	<2.2e-8	µCi/g
			Zr-95	<1.6e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
4/20/2022	AF93738	004	Ba-140	<3.4e-8	µCi/g
			Be-7	2.54e-7	µCi/g
			Co-58	<9.2e-9	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<8.8e-9	µCi/g
			Cs-137	<9.6e-9	µCi/g
			Fe-59	<2.3e-8	µCi/g
			I-131	<9.8e-9	µCi/g
			K-40	6.78e-6	µCi/g
			La-140	<9.6e-9	µCi/g
			Mn-54	<9.8e-9	µCi/g
			Nb-95	<9.9e-9	µCi/g
			Pb-212	2.4e-8	µCi/g
			Zn-65	<2.6e-8	µCi/g
			Zr-95	<1.7e-8	µCi/g
6/15/2022	AG00906	004	Ba-140	<4.0e-8	µCi/g
			Be-7	3.07e-7	µCi/g
			Co-58	<1.1e-8	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<9.8e-9	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.8e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	7.10e-6	µCi/g
			La-140	<1.0e-8	µCi/g
			Mn-54	<1.1e-8	µCi/g
			Nb-95	<1.1e-8	µCi/g
			Pb-212	3.90e-8	µCi/g
			Tl-208	1.32e-8	µCi/g
			Zn-65	<2.8e-8	µCi/g
			Zr-95	<1.8e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
8/10/2022	AG08437	004	Ba-140	<3.6e-8	µCi/g
			Be-7	5.70e-7	µCi/g
			Co-58	<9.1e-9	µCi/g
			Co-60	<1.1e-8	µCi/g
			Cs-134	<9.5e-9	µCi/g
			Cs-137	<9.7e-9	µCi/g
			Fe-59	<2.2e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	3.70e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<9.5e-9	µCi/g
			Nb-95	<9.5e-9	µCi/g
			Tl-208	1.57e-8	µCi/g
			Zn-65	<2.4e-8	µCi/g
			Zr-95	<1.7e-8	µCi/g
9/21/2022	AG13990	004	Ba-140	<3.8e-8	µCi/g
			Be-7	1.11e-7	µCi/g
			Co-58	<9.7e-9	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<9.4e-9	µCi/g
			Cs-137	<1.1e-8	µCi/g
			Fe-59	<2.4e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	6.64e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<9.6e-9	µCi/g
			Nb-95	<9.9e-9	µCi/g
			Pb-212	4.5e-8	µCi/g
			Zn-65	<2.7e-8	µCi/g
			Zr-95	<1.7e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
11/16/2022	AG19087	004	Ba-140	<3.2e-8	µCi/g
			Be-7	3.69e-7	µCi/g
			Co-58	<8.7e-9	µCi/g
			Co-60	<8.8e-9	µCi/g
			Cs-134	<7.9e-9	µCi/g
			Cs-137	<9.3e-9	µCi/g
			Fe-59	<1.9e-8	µCi/g
			I-131	<1.1e-8	µCi/g
			K-40	6.32e-6	µCi/g
			La-140	<8.4e-9	µCi/g
			Mn-54	<8.8e-9	µCi/g
			Nb-95	<9.2e-9	µCi/g
			Pb-212	2.6e-8	µCi/g
			Zn-65	<2.2e-8	µCi/g
			Zr-95	<1.6e-8	µCi/g
5/25/2022	AF98339	030	Ba-140	<3.3e-8	µCi/g
			Be-7	5.43e-7	µCi/g
			Co-58	<8.6e-9	µCi/g
			Co-60	<1.1e-8	µCi/g
			Cs-134	<8.7e-9	µCi/g
			Cs-137	<8.7e-9	µCi/g
			Fe-59	<2.1e-8	µCi/g
			I-131	<9.6e-9	µCi/g
			K-40	4.52e-6	µCi/g
			La-140	<1.0e-8	µCi/g
			Mn-54	<9.1e-9	µCi/g
			Nb-95	<9.3e-9	µCi/g
			Zn-65	<2.4e-8	µCi/g
			Zr-95	<1.6e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
10/18/2022	AG17298	030	Ba-140	<3.5e-8	µCi/g
			Co-58	<9.6e-9	µCi/g
			Co-60	<1.2e-8	µCi/g
			Cs-134	<9.3e-9	µCi/g
			Cs-137	<1.1e-8	µCi/g
			Fe-59	<2.2e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	3.16e-6	µCi/g
			La-140	<1.3e-8	µCi/g
			Mn-54	<9.8e-9	µCi/g
			Nb-95	<9.7e-9	µCi/g
			Zn-65	<2.5e-8	µCi/g
			Zr-95	<1.7e-8	µCi/g
12/14/2022	AG21858	030	Ba-140	<3.9e-8	µCi/g
			Be-7	1.48e-6	µCi/g
			Co-58	<1.1e-8	µCi/g
			Co-60	<1.3e-8	µCi/g
			Cs-134	<1.1e-8	µCi/g
			Cs-137	<1.2e-8	µCi/g
			Fe-59	<2.3e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	3.42e-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	3.8e-8	µCi/g
			Tl-208	2.23e-8	µCi/g
			Zn-65	<2.7e-8	µCi/g
			Zr-95	<1.8e-8	µCi/g

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation for Milk Samples					
7/20/2022	AG05409	063	Ba-140	<3.8e-8	µCi/g
			Be-7	4.47e-7	µCi/g
			Co-58	<9.4e-9	µCi/g
			Co-60	<1.1e-8	µCi/g
			Cs-134	<9.7e-9	µCi/g
			Cs-137	<9.4e-9	µCi/g
			Fe-59	<2.3e-8	µCi/g
			I-131	<1.2e-8	µCi/g
			K-40	4.60e-6	µCi/g
			La-140	<1.2e-8	µCi/g
			Mn-54	<1.0e-8	µCi/g
			Nb-95	<9.7e-9	µCi/g
			Zn-65	<2.5e-8	µCi/g

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/25/2022	AF81478	046	Ba-140	<7.8e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.4e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			La-140	<2.9e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.4e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	6.9e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
2/23/2022	AF85941	046	Ba-140	<8.3e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.9e-9	µCi/mL
			K-40	2.5e-8	µCi/mL
			La-140	<3.0e-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	<3.0e-9	µCi/mL
			Gross Beta	4.18e-8	µCi/mL
3/10/2022	AF88535	046	Ba-140	<7.6e-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	<2.2e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			K-40	4.8e-8	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	7.4e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/7/2022	AF92307	046	Ba-140	<7.8e-9	µCi/mL
			Co-58	<2.1e-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	<3.9e-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	<2.0e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	6.6e-9	µCi/mL
5/11/2022	AF96346	046	Ba-140	<6.2e-9	µCi/mL
			Co-58	<1.6e-9	µCi/mL
			Co-60	<1.7e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.8e-9	µCi/mL
			Fe-59	<3.2e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.7e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<2.6e-9	µCi/mL
			Gross Beta	6.1e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/9/2022	AG00136	046	Ba-140	<8.5e-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	<2.0e-9	µCi/mL
			Fe-59	<3.9e-9	µCi/mL
			I-131	<2.7e-9	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.2e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	5.5e-9	µCi/mL
7/8/2022	AG03760	046	Ba-140	<8.2e-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	<2.0e-9	µCi/mL
			Fe-59	<3.6e-9	µCi/mL
			I-131	<2.4e-9	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Pb-212	4.8e-9	µCi/mL
			Zn-65	<4.0e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	6.0e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
8/9/2022	AG08277	046	Ba-140	<7.9e-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	<1.7e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.7e-9	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<1.6e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.6e-9	µCi/mL
			Zr-95	<2.8e-9	µCi/mL
			Gross Beta	7.5e-9	µCi/mL
9/8/2022	AG11955	046	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.8e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<2.1e-9	µCi/mL
			Cs-137	<2.0e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.2e-9	µCi/mL
			Gross Beta	5.5e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/7/2022	AG16348	046	Ba-140	<6.2e-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	<1.8e-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	<1.7e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	6.3e-9	µCi/mL
11/10/2022	AG18680	046	Ba-140	<9.0e-9	µCi/mL
			Co-58	<1.9e-9	µCi/mL
			Co-60	<1.9e-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	<3.2e-9	µCi/mL
			La-140	<2.6e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.6e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	6.5e-9	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/6/2022	AG21201	046	Ba-140	<7.5e-9	µCi/mL
			Co-58	<1.8e-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	<1.8e-9	µCi/mL
			Nb-95	<1.9e-9	µCi/mL
			Zn-65	<4.0e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	7.5e-9	µCi/mL
1/25/2022	AF81477	052	Ba-140	<9.0e-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	<4.1e-9	µCi/mL
			I-131	<3.3e-9	µCi/mL
			La-140	<3.0e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<2.0e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.4e-9	µCi/mL
			Gross Beta	3.93e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
2/23/2022	AF85942	052	Ba-140	<1.1e-8	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	<2.1e-9	µCi/mL
			Fe-59	<4.0e-9	µCi/mL
			I-131	<3.7e-9	µCi/mL
			K-40	6.2e-8	µCi/mL
			La-140	<3.1e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.1e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	9.8e-9	µCi/mL
3/10/2022	AF88534	052	Ba-140	<6.5e-9	µCi/mL
			Co-58	<1.6e-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	<3.4e-9	µCi/mL
			I-131	<2.0e-9	µCi/mL
			K-40	5.0e-8	µCi/mL
			La-140	<2.2e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Zn-65	<4.0e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	6.7e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
4/7/2022	AF92306	052	Ba-140	<8.2e-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	<2.2e-9	µCi/mL
			Fe-59	<3.8e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			K-40	6.9e-8	µCi/mL
			La-140	<2.5e-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	<3.4e-9	µCi/mL
			Gross Beta	9.1e-8	µCi/mL
5/11/2022	AF96345	052	Ba-140	<8.2e-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	<2.2e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.5e-9	µCi/mL
			K-40	1.30e-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	<4.4e-9	µCi/mL
			Zr-95	<3.3e-9	µCi/mL
			Gross Beta	1.13e-7	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
6/9/2022	AG00135	052	Ba-140	<6.8e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.2e-9	µCi/mL
			K-40	1.32e-7	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<1.9e-9	µCi/mL
			Nb-95	<1.7e-9	µCi/mL
			Pb-212	4.5e-9	µCi/mL
			Zn-65	<3.7e-9	µCi/mL
			Zr-95	<2.9e-9	µCi/mL
			Gross Beta	1.67e-7	µCi/mL
7/8/2022	AG03759	052	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.7e-9	µCi/mL
			Cs-137	<1.9e-9	µCi/mL
			Fe-59	<3.5e-9	µCi/mL
			I-131	<2.1e-9	µCi/mL
			K-40	1.91e-7	µCi/mL
			La-140	<2.4e-9	µCi/mL
			Mn-54	<1.8e-9	µCi/mL
			Nb-95	<1.8e-9	µCi/mL
			Pb-212	1.51e-8	µCi/mL
			Tl-208	4.7e-9	µCi/mL
			Zn-65	<4.0e-9	µCi/mL
			Zr-95	<3.0e-9	µCi/mL
			Gross Beta	1.42e-7	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
8/9/2022	AG08276	052	Ba-140	<9.9e-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	<4.3e-9	µCi/mL
			I-131	<3.4e-9	µCi/mL
			K-40	1.18e-7	µCi/mL
			La-140	<3.2e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Zn-65	<4.4e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	1.21e-7	µCi/mL
9/8/2022	AG11954	052	Ba-140	<5.9e-9	µCi/mL
			Co-58	<1.5e-9	µCi/mL
			Co-60	<1.8e-9	µCi/mL
			Cs-134	<1.6e-9	µCi/mL
			Cs-137	<1.7e-9	µCi/mL
			Fe-59	<3.2e-9	µCi/mL
			I-131	<1.8e-9	µCi/mL
			K-40	4.1e-8	µCi/mL
			La-140	<2.3e-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	<2.9e-9	µCi/mL
			Gross Beta	5.5e-8	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/7/2022	AG16347	052	Ba-140	<8.3e-9	µCi/mL
			Co-58	<2.2e-9	µCi/mL
			Co-60	<2.2e-9	µCi/mL
			Cs-134	<2.2e-9	µCi/mL
			Cs-137	<2.3e-9	µCi/mL
			Fe-59	<4.1e-9	µCi/mL
			I-131	<2.7e-9	µCi/mL
			K-40	1.55e-7	µCi/mL
			La-140	<2.8e-9	µCi/mL
			Mn-54	<2.1e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Pb-212	9.4e-9	µCi/mL
			Zn-65	<4.7e-9	µCi/mL
			Zr-95	<3.7e-9	µCi/mL
			Gross Beta	1.33e-7	µCi/mL
11/10/2022	AG18679	052	Ba-140	<8.9e-9	µCi/mL
			Co-58	<2.0e-9	µCi/mL
			Co-60	<2.0e-9	µCi/mL
			Cs-134	<1.8e-9	µCi/mL
			Cs-137	<2.1e-9	µCi/mL
			Fe-59	<3.7e-9	µCi/mL
			I-131	<3.6e-9	µCi/mL
			K-40	2.06e-7	µCi/mL
			La-140	<2.5e-9	µCi/mL
			Mn-54	<2.0e-9	µCi/mL
			Nb-95	<2.2e-9	µCi/mL
			Zn-65	<4.1e-9	µCi/mL
			Zr-95	<3.5e-9	µCi/mL
			Gross Beta	1.50e-7	µCi/mL

Comanche Peak Nuclear Power Plant
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
12/6/2022	AG21200	052	Ba-140	<6.7e-9	µCi/mL
			Co-58	<1.7e-9	µCi/mL
			Co-60	<2.0e-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	7.5e-8	µCi/mL
			La-140	<2.4e-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	1.10e-7	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Water Composite Samples					
4/6/2022	AF91901	046	H-3	<1.0e-6	µCi/mL
7/25/2022	AG05889	046	H-3	<1.0e-6	µCi/mL
10/10/2022	AG16349	046	H-3	<1.0e-6	µCi/mL
1/11/2022	AF79563	052	H-3	<1.0e-6	µCi/mL
4/6/2022	AF91902	052	H-3	<1.0e-6	µCi/mL
7/25/2022	AG05890	052	H-3	<1.0e-6	µCi/mL
10/10/2022	AG16350	052	H-3	<1.0e-6	µCi/mL
1/11/2022	AF79562	054	H-3	<1.0e-6	µCi/mL

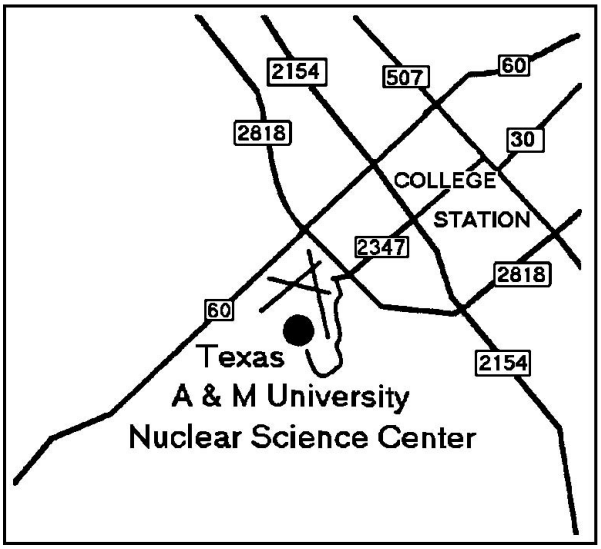
*NOTE: * Indicates the analysis was by alpha spectrometry, or Ra-226, analysis by radon emanation.*
***Indicates the tritium (H-3) analysis for food product, sediment, and vegetation is reported in UCi/ml*

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.

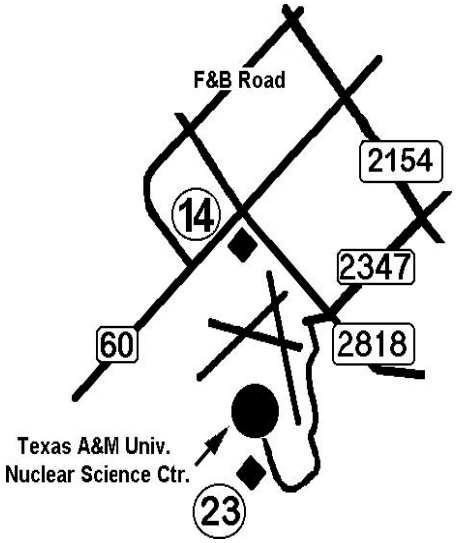
Shaded area indicates location of Brazos County



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	31	50	49	47	177	
3	25	37	39	38	139	
4	38	44	44	42	168	
5	23	33	34	31	121	
10	28	35	36	32	131	
11	22	30	33	32	117	
14*	25	31	33	32	121	
18	24	32	39	32	127	
19	21	35	36	34	126	
23*	21	29	0	31	81	Q3 OSL not found
24	74	73	74	39	260	

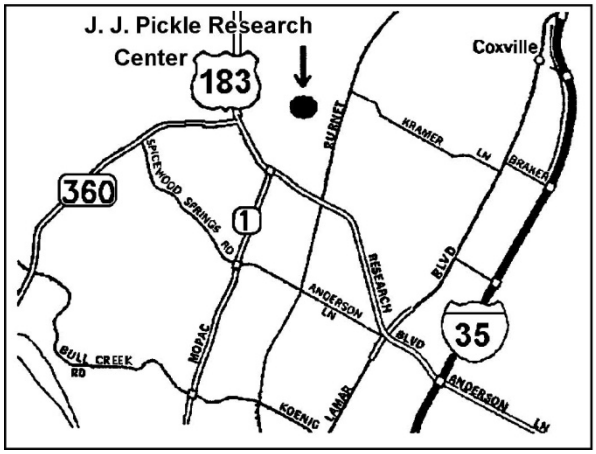
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

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.

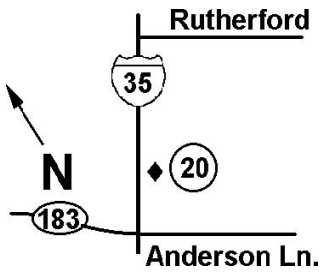
Shaded area indicates location of Travis County



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	22	0	0	27	49	Q2 & 3 OSL not found
2	21	30	34	29	114	
3	21	30	32	30	113	
4	26	33	37	33	129	
5	22	30	33	29	114	
20*	22	29	31	29	111	

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.

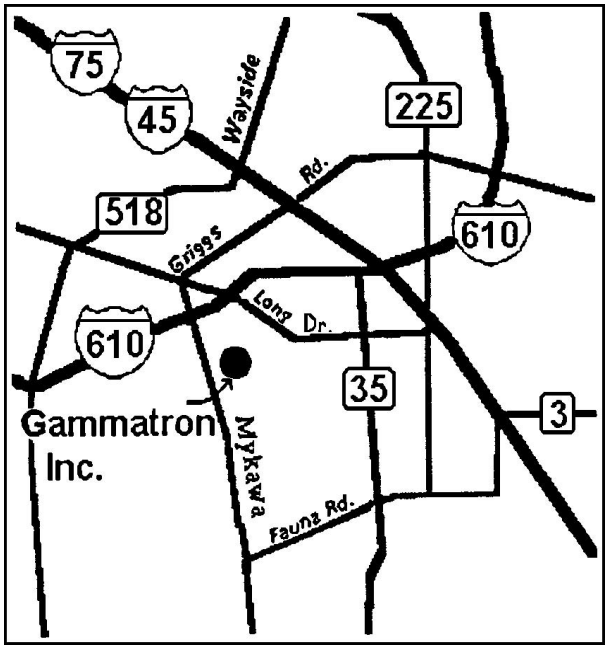
Other Facilities

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

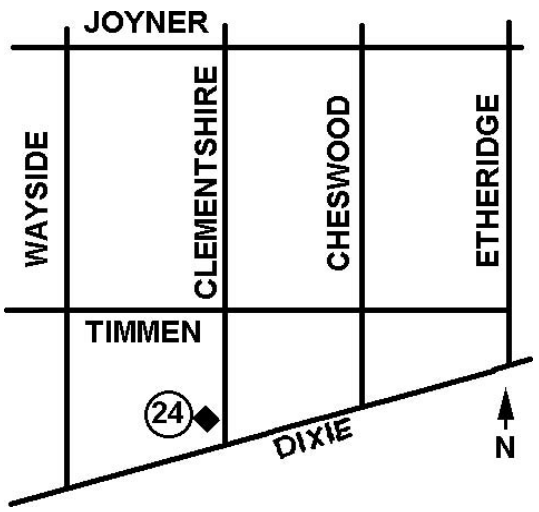
Harris County



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)

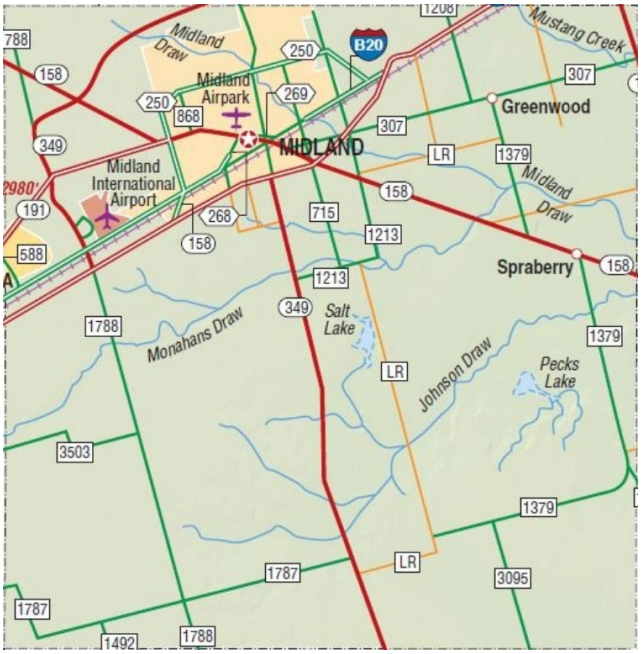
Site 018 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
3	52	91	68	117	328	
5	444	725	677	1093	2939	
8	251	0	328	350	929	
27*	20	29	32	28	109	
30	51	74	128	124	377	
31	51	113	75	116	355	
34	183	162	210	174	729	
40	84	241	266	176	767	

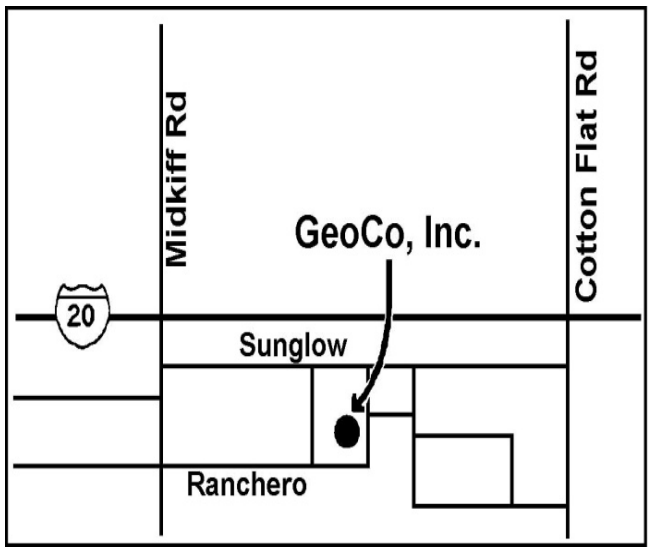
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

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.

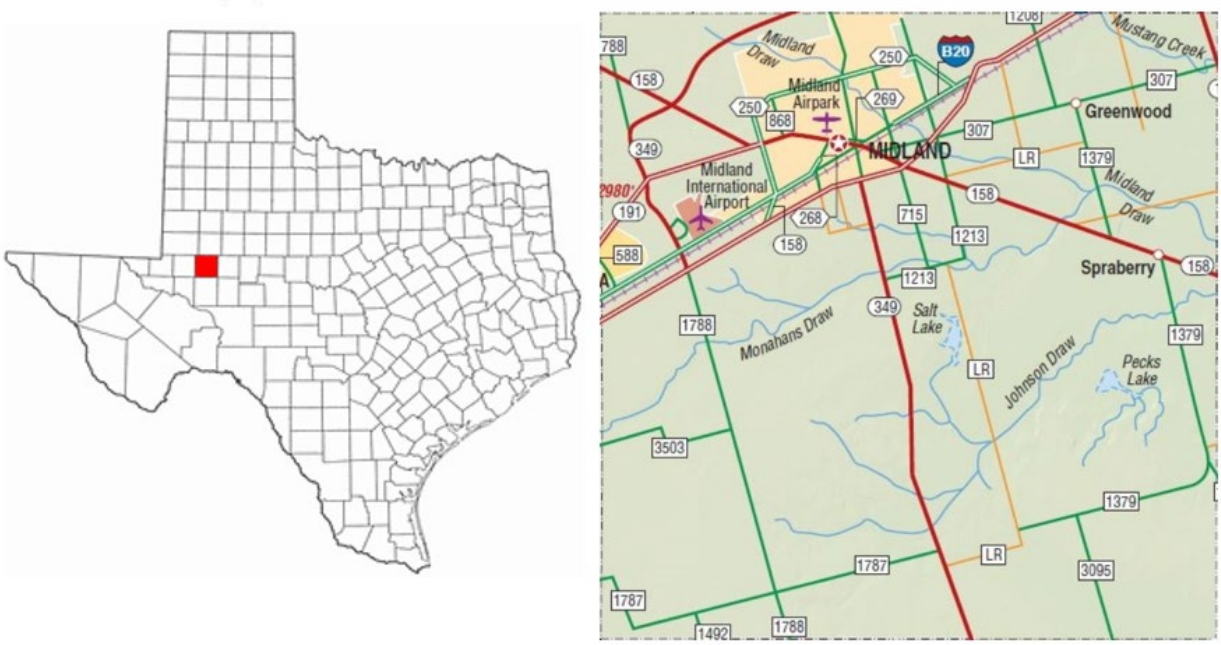
Optically Stimulated Luminescence (OSL) Monitoring Results
(quarterly and annual readings are in mrem)

Site 051 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	29	34	37	33	133	
8	26	31	35	34	126	

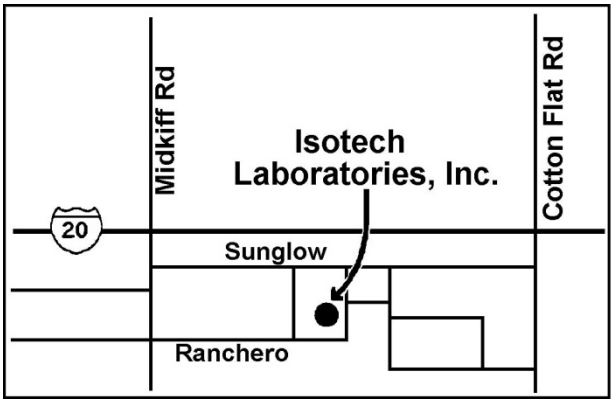
NOTE: [1]Background is not subtracted from the data
[2]An occupancy factor of 1/16 may be applied to this number to obtain radiation dose to members of the public.

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.



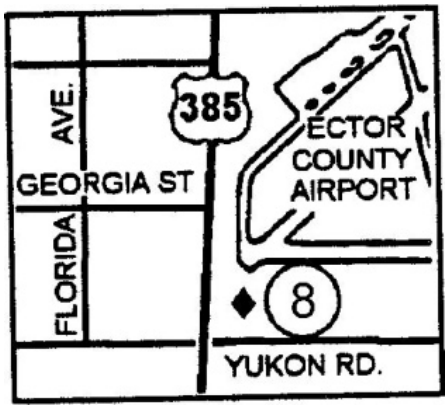
Shaded area indicates location of Midland County



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)

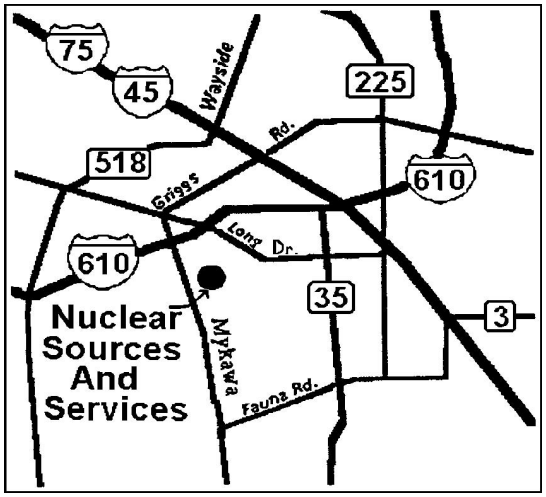
Site 008 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	0	33	37	34	104	Q1 osl Not Found
2	9	38	51	42	140	
3	5	37	41	38	121	
4	10	17	52	41	120	
6	9	47	51	38	145	
8*	0	32	37	35	104	Q1 osl Not Found

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.

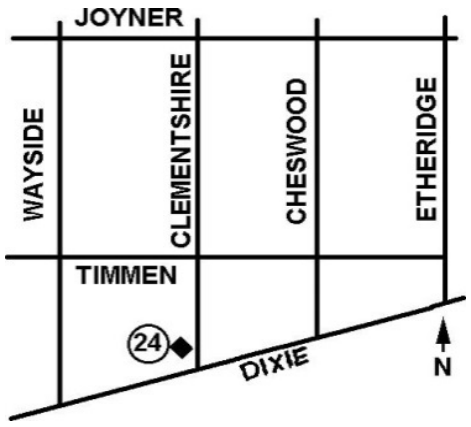
Shaded area indicates location of Harris County



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	107	317	77	195	696	
4	28	58	46	42	174	
6	28	80	48	75	231	
7	31	72	141	73	317	
11	66	34	99	35	234	
12	112	110	192	246	660	
16	30	122	45	38	235	
18	34	43	49	11	137	
19	39	54	65	45	203	
20	33	119	73	37	262	
21	216	245	143	138	742	
22	26	61	37	31	155	
23	22	60	35	31	148	
24*	20	29	32	28	109	
25	28	66	41	38	173	
41	84	97	71	147	399	

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

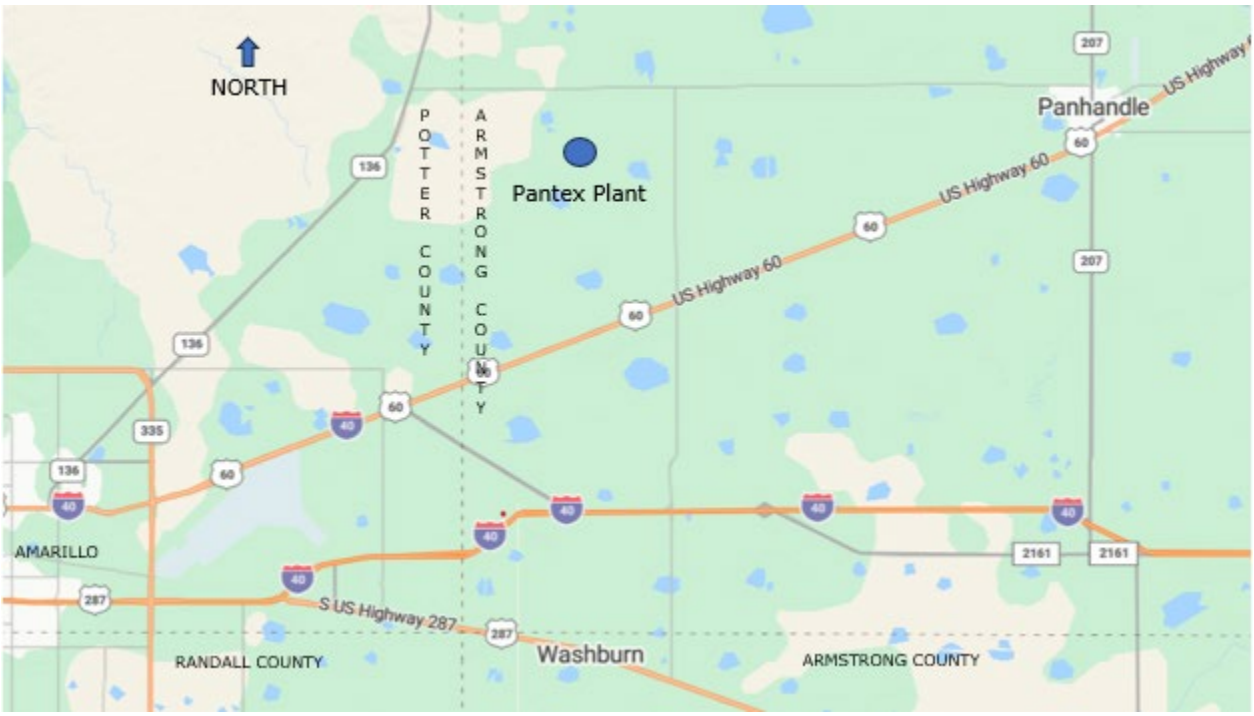
The Pantex plant site is located in Carson County in the Texas Panhandle, north of U.S. Highway 60. The plant is located 17 miles (27 kilometers) northeast of downtown Amarillo. It is centered on a 18,000-acre site. The Pantex facility consists of 11,703 acres of United States Department of Energy (USDOE) 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.

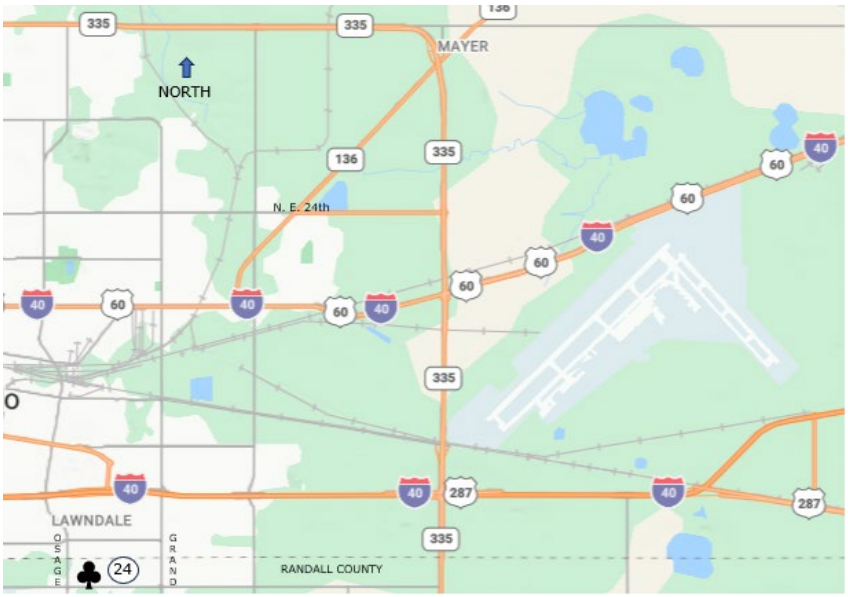
The Radiation Branch Surveillance Program consists of OSL monitoring and sampling air, food products, sediment, soil, vegetation, and water. Analysis of samples is performed to determine the presence of any special nuclear material.

Shaded area indicates location of Carson County

Pantex
Monitoring Station Locations

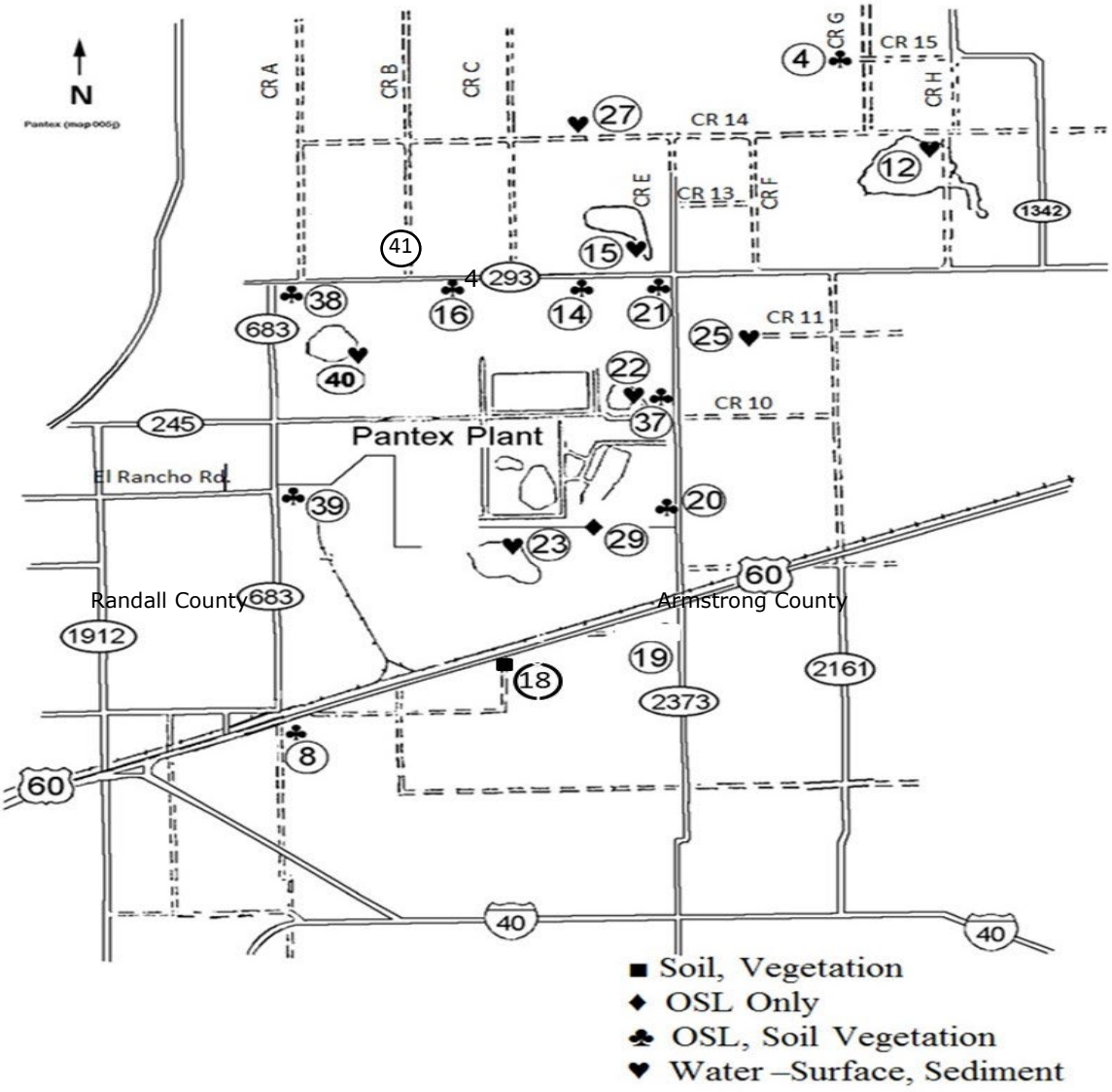
♦ TLD Station ♥ Sample Station ♣ TLD & Sample Station

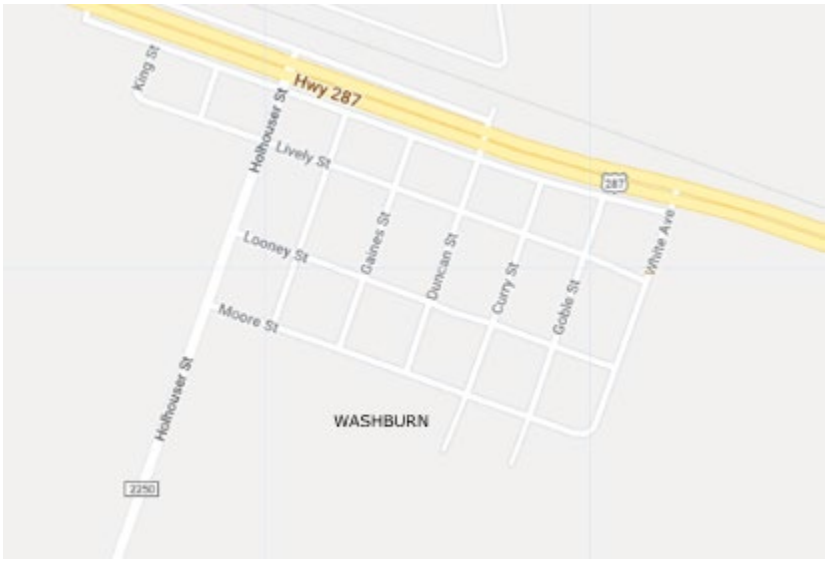




Pantex
Monitoring Station Locations

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	34	39	45	40	158	
8	33	39	45	38	155	
14	34	38	44	39	155	
16	32	37	45	39	153	
19	34	38	44	41	157	
20	32	37	44	39	152	
21	30	35	40	38	143	
24*	29	34	43	37	143	
29	32	37	46	39	154	
37	35	40	48	42	165	
38	30	38	42	38	148	
39	32	37	44	39	152	
41	213	308	302	254	1077	
42	31	37	39	37	144	

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					
10/21/2022	AG17911	025	Be-7	6.60e-6	µCi/g
			K-40	3.04e-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

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
4/26/2022	AF94331	015	Bi-214	1.03e-6	µCi/g
			Cs-137	4.86e-7	µCi/g
			K-40	2.63e-5	µCi/g
			Pb-212	1.54e-6	µCi/g
			Pb-214	9.6e-7	µCi/g
			Tl-208	5.66e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.06e-6	µCi/g
			Uranium-234	1.13e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/25/2022	AF81467	022	K-40	1.16e-5	µCi/g
			Pb-212	7.4e-7	µCi/g
			Pb-214	7.6e-7	µCi/g
			Tl-208	3.32e-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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Sediment Samples					
10/21/2022	AG17905	023	Cs-137	1.31e-7	µCi/g
			K-40	1.59e-5	µCi/g
			Pb-212	1.26e-6	µCi/g
			Pb-214	6.74e-7	µCi/g
			Tl-208	3.16e-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
7/18/2022	AG04876	040	K-40	2.07e-5	µCi/g
			Pb-212	1.21e-6	µCi/g
			Pb-214	1.26e-6	µCi/g
			Tl-208	5.1e-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
Soil Samples					
4/26/2022	AF94325	004	Cs-137	2.24e-7	µCi/g
			K-40	2.13e-5	µCi/g
			Pb-212	1.43e-6	µCi/g
			Pb-214	1.03e-6	µCi/g
			Tl-208	5.5e-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					
4/26/2022	AF94326	008	Bi-214	8.39e-7	µCi/g
			K-40	1.74e-5	µCi/g
			Pb-212	9.0e-7	µCi/g
			Pb-214	8.97e-7	µCi/g
			Tl-208	3.33e-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
10/21/2022	AG17900	008	K-40	1.78e-5	µCi/g
			Pb-212	1.02e-6	µCi/g
			Pb-214	9.0e-7	µCi/g
			Tl-208	3.69e-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
1/25/2022	AF81462	014	K-40	1.58e-5	µCi/g
			Pb-212	1.68e-6	µCi/g
			Pb-214	8.4e-7	µCi/g
			Tl-208	3.50e-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
7/18/2022	AG04866	014	Pb-212	1.41e-6	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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
4/26/2022	AF94327	016	K-40	1.78e-5	µCi/g
			Pb-212	1.55e-6	µCi/g
			Pb-214	8.4e-7	µCi/g
			Tl-208	4.21e-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
10/21/2022	AG17901	016	K-40	1.85e-5	µCi/g
			Pb-212	1.20e-6	µCi/g
			Tl-208	4.9e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.04e-6	µCi/g
			Uranium-234	1.05e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	<1.0e-6	µCi/g
1/25/2022	AF81463	018	K-40	1.51e-5	µCi/g
			Pb-212	9.4e-7	µCi/g
			Pb-214	7.8e-7	µCi/g
			Tl-208	4.19e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.17e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.24e-6	µCi/g
7/18/2022	AG04868	018	K-40	1.47e-5	µCi/g
			Pb-212	1.10e-6	µCi/g
			Tl-208	3.65e-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					
4/26/2022	AF94328	019	K-40	1.42e-5	µCi/g
			Pb-212	1.02e-6	µCi/g
			Pb-214	7.2e-7	µCi/g
			Tl-208	4.39e-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
10/21/2022	AG17902	019	K-40	1.74e-5	µCi/g
			Pb-212	1.06e-6	µCi/g
			Pb-214	7.6e-7	µCi/g
			Tl-208	4.62e-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
1/25/2022	AF81464	020	K-40	1.64e-5	µCi/g
			Pb-212	1.60e-6	µCi/g
			Pb-214	1.09e-6	µCi/g
			Tl-208	4.35e-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
7/18/2022	AG04870	020	K-40	1.73e-5	µCi/g
			Pb-212	9.5e-7	µCi/g
			Pb-214	7.36e-7	µCi/g
			Tl-208	4.12e-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					
4/26/2022	AF94329	021	K-40	1.75e-5	µCi/g
			Pb-212	1.61e-6	µCi/g
			Pb-214	8.1e-7	µCi/g
			Tl-208	4.57e-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
10/21/2022	AG17903	021	K-40	1.21e-5	µCi/g
			Pb-212	5.33e-7	µCi/g
			Pb-214	4.81e-7	µCi/g
			Tl-208	2.32e-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
1/25/2022	AF81465	037	K-40	1.80e-5	µCi/g
			Pb-212	1.65e-6	µCi/g
			Pb-214	9.3e-7	µCi/g
			Tl-208	4.19e-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
7/18/2022	AG04872	037	K-40	1.63e-5	µCi/g
			Pb-212	1.08e-6	µCi/g
			Pb-214	9.5e-7	µCi/g
			Tl-208	4.22e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.64e-6	µCi/g
			Uranium-234	1.43e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.10e-6	µCi/g

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Soil Samples					
4/26/2022	AF94330	038	K-40	1.54e-5	µCi/g
			Pb-212	1.13e-6	µCi/g
			Pb-214	7.8e-7	µCi/g
			Tl-208	4.06e-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
10/21/2022	AG17904	038	Bi-212	1.43e-6	µCi/g
			Bi-214	8.9e-7	µCi/g
			Cs-137	1.72e-7	µCi/g
			K-40	1.88e-5	µCi/g
			Pb-212	1.65e-6	µCi/g
			Pb-214	9.2e-7	µCi/g
			Tl-208	4.18e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	2.03e-6	µCi/g
			Uranium-234	<1.0e-6	µCi/g
			Uranium-235	<1.0e-6	µCi/g
			Uranium-238	1.11e-6	µCi/g
1/25/2022	AF81466	039	K-40	1.62e-5	µCi/g
			Pb-212	1.08e-6	µCi/g
			Pb-214	9.4e-7	µCi/g
			Tl-208	4.43e-7	µCi/g
			Plutonium-239	<4.0e-7	µCi/g
			Total Uranium Activity	<2.0e-6	µCi/g
			Uranium-234	1.08e-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					
7/18/2022	AG04874	039	Bi-214	6.35e-7	µCi/g
			Cs-137	2.35e-7	µCi/g
			K-40	1.54e-5	µCi/g
			Pb-212	9.2e-7	µCi/g
			Pb-214	6.90e-7	µCi/g
			Tl-208	3.14e-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					
4/26/2022	AF94332	004	Be-7	4.18e-6	µCi/g
			K-40	1.78e-5	µCi/g
			Pb-212	1.28e-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
10/21/2022	AG17906	004	Be-7	8.62e-6	µCi/g
			K-40	4.26e-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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/26/2022	AF94333	008	Be-7	5.03e-6	µCi/g
			K-40	6.97e-6	µCi/g
			Tl-208	2.7e-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
10/21/2022	AG17907	008	Be-7	6.22e-6	µCi/g
			K-40	2.73e-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
1/25/2022	AF81468	014	Be-7	3.90e-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
7/18/2022	AG04867	014	Be-7	5.40e-6	µCi/g
			K-40	8.16e-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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/26/2022	AF94334	016	Be-7	4.28e-6	µCi/g
			K-40	2.42e-5	µCi/g
			Pb-212	1.33e-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
10/21/2022	AG17908	016	Be-7	5.29e-6	µCi/g
			K-40	3.08e-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
1/25/2022	AF81469	018	Be-7	2.09e-6	µCi/g
			K-40	1.196e-5	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
7/18/2022	AG04869	018	Be-7	1.069e-5	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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/26/2022	AF94335	019	Be-7	2.33e-6	µCi/g
			K-40	2.25e-5	µCi/g
			Pb-212	9.7e-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
10/21/2022	AG17909	019	Be-7	6.46e-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
1/25/2022	AF81470	020	Be-7	4.13e-6	µCi/g
			K-40	9.9e-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
7/18/2022	AG04871	020	Be-7	7.29e-6	µCi/g
			K-40	4.02e-5	µCi/g
			Pb-212	1.97e-7	µCi/g
			Tl-208	6.5e-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

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/26/2022	AF94336	021	Be-7	4.00e-6	µCi/g
			K-40	6.21e-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
10/21/2022	AG17910	021	Be-7	7.46e-6	µCi/g
			K-40	1.53e-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
1/25/2022	AF81471	037	Be-7	2.48e-6	µCi/g
			K-40	1.22e-5	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
7/18/2022	AG04873	037	Be-7	1.02e-5	µCi/g
			K-40	6.41e-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

Pantex
Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Vegetation Samples					
4/26/2022	AF94337	038	Be-7	4.84e-6	µCi/g
			K-40	8.33e-6	µCi/g
			Pb-212	1.11e-7	µCi/g
			Tl-208	5.2e-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
10/21/2022	AG17912	038	Be-7	5.90e-6	µCi/g
			K-40	3.53e-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
1/25/2022	AF81472	039	Be-7	4.75e-6	µCi/g
			K-40	1.197e-5	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
7/18/2022	AG04875	039	Be-7	6.50e-6	µCi/g
			K-40	3.12e-5	µCi/g
			Pb-212	3.7e-8	µCi/g
			Tl-208	7.9e-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

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
1/25/2022	AF81473	022	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	2.00e-9	µCi/mL
			Uranium-234	1.03e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	<1.0e-9	µCi/mL
1/25/2022	AF81474	024	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.3e-9	µCi/mL
			Uranium-234	3.94e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.32e-9	µCi/mL
4/26/2022	AF94338	024	Gamma	Not detected	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	3.77e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.32e-9	µCi/mL
7/18/2022	AG04877	024	Gamma	Not detected	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	3.81e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.54e-9	µCi/mL

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Environmental Sample Results

Date	Lab	Station	Analyte	Result	Units
Water Surface Samples					
10/21/2022	AG17914	024	Cs-137	7.6e-9	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	4.12e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.96e-9	µCi/mL

Date	Lab	Station	Analyte	Result	Units
Water Ground Samples					
1/25/2022	AF81475	027	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	4.7e-9	µCi/mL
			Uranium-234	3.11e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.52e-9	µCi/mL
4/26/2022	AF94339	027	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	4.1e-9	µCi/mL
			Uranium-234	3.00e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.06e-9	µCi/mL
7/18/2022	AG04878	027	Bi-214	9.8e-9	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	5.2e-9	µCi/mL
			Uranium-234	3.61e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.26e-9	µCi/mL

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Environmental Sample Results

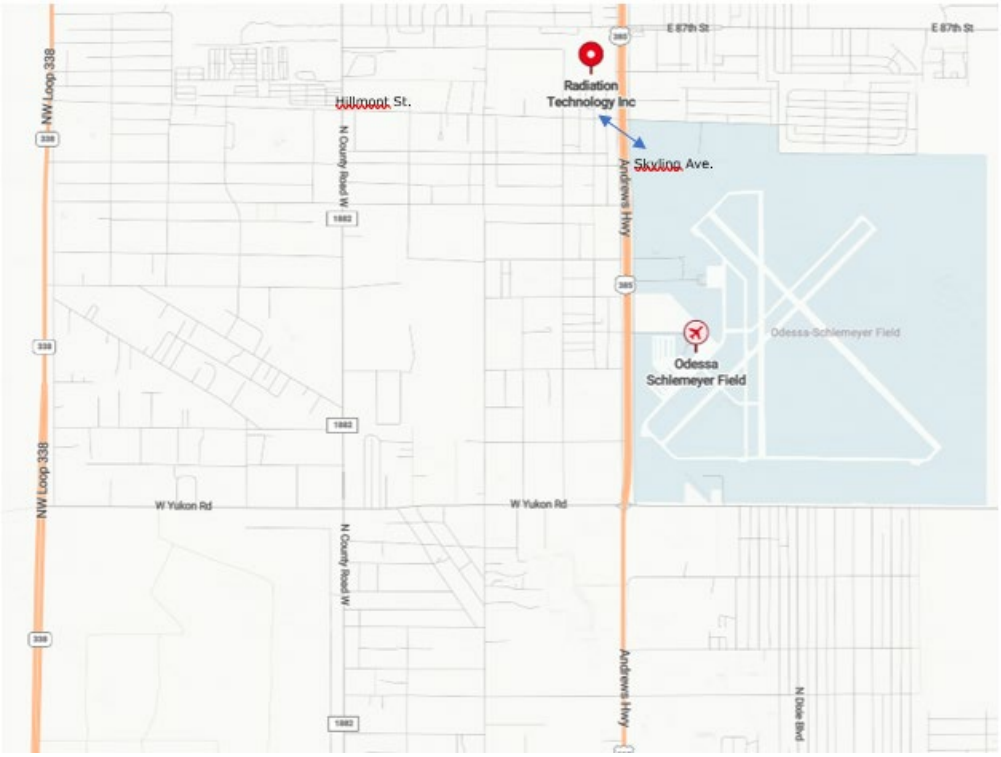
Date	Lab	Station	Analyte	Result	Units
Water Ground Samples					
10/21/2022	AG17915	027	Pb-214	1.05e-8	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	4.1e-9	µCi/mL
			Uranium-234	2.70e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.30e-9	µCi/mL
1/25/2022	AF81476	030	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	7.7e-9	µCi/mL
			Uranium-234	5.6e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	1.99e-9	µCi/mL
4/26/2022	AF94340	030	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	6.5e-9	µCi/mL
			Uranium-234	4.38e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	2.01e-9	µCi/mL
7/18/2022	AG04879	030	Gamma	Not detected	µCi/mL
			Plutonium-239	<4.0e-10	µCi/mL
			H-3	<1.0e-6	µCi/mL
			Total Uranium Activity	7.0e-9	µCi/mL
			Uranium-234	4.6e-9	µCi/mL
			Uranium-235	<1.0e-9	µCi/mL
			Uranium-238	2.17e-9	µCi/mL
10/21/2022	AG17913	030	Pb-214	1.34e-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
			Uranium-238	2.70e-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	25	58	43	32	158	
2	69	34	108	74	285	
3	67	33	37	33	170	
4	26	33	0	32	91	QTR 3 OSL Not Found
8*	26	31	35	34	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.

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	22	28	31	26	107	
2	20	27	32	28	107	
3	21	28	33	29	111	
4	22	28	32	30	112	
6*	22	31	33	32	118	

Site 56 OSL Stations	Q1	Q2	Q3	Q4	Annual Dose	Notes
1	22	32	34	31	119	
2	24	32	35	33	124	
3	21	29	33	29	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.*

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
Environmental Sciences Branch

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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