



ANNUAL SITE ENVIRONMENTAL REPORT

APPENDICES

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Acronyms and Abbreviations

Term	Definition
C	
CaCO ₃	calcium carbonate
CINT	Center for Integrated Nanotechnologies
D	
DE	data excluded
DU	duplicate sample
E	
E. coli	= Escherichia coli
L	
Lc	critical level
LC/MS/MS	liquid chromatography/mass spectrometry/mass spectrometry
M	
MCL	maximum contaminant level
MDA	minimal detectable activity or minimum measured activity
MDL	method detection limit
MPN	most probable number
MS4	Municipal Separate Storm Sewer System

Term	Definition
N	
ND	not detected
NE	not established
NTU	nephelometric turbidity unit
P	
pH	potential of hydrogen
PQL	practical quantitation limit
S	
SA	sample
SU	standard unit

Units of Measure

Unit	Definition
°C	degrees Celsius
°F	degrees Fahrenheit
cm	centimeter
g	gram
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
µm	micrometer
mg/kg	milligrams per kilogram
mg/L	milligrams per liter

Unit	Definition
mg/sa	milligrams per sample
mrem	millirem
mrem/yr	millirems per year
ng/L	nanograms per liter
pCi/g	picocuries per gram
pCi/L	picocuries per liter
pCi/sa	picocuries per sample
pg/L	picogram per liter

Appendix A. Terrestrial Surveillance Analytical Results in 2024



Sandia Mountains crest

Table A-1. Radiological results in soil, 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-1	Americium-241	pCi/g	-0.00904	±0.105	0.169	0.0837	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0713	±0.0209	0.018	0.00875		NONE	SA	DOE HASL 300
	Tritium	pCi/L	79.9	±152	259	123	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	-0.0267	±0.0858	0.119	0.0587	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	1.24	±1.36	1.23	0.606		BD	SA	DOE HASL 300
S-6	Americium-241	pCi/g	0.0209	±0.0388	0.0713	0.0348	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0271	±0.0136	0.0171	0.00822		J	SA	DOE HASL 300
	Tritium	pCi/L	-160	±605	1,080	515	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0327	±0.0902	0.0757	0.037	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.913	±0.868	0.551	0.268		J	SA	DOE HASL 300
S-33	Americium-241	pCi/g	0.00512	±0.0212	0.0352	0.0172	U	BD	DU	DOE HASL 300
	Americium-241	pCi/g	-0.000759	±0.0212	0.0331	0.0162	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.235	±0.0437	0.0288	0.0136		NONE	DU	DOE HASL 300
	Cesium-137	pCi/g	0.219	±0.0398	0.0314	0.0151		NONE	SA	DOE HASL 300
	Tritium	pCi/L	121	±112	184	87.7	U	BD	DU	GL-RAD-A-002
	Tritium	pCi/L	112	±111	184	87.7	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0598	±0.11	0.116	0.056	U	BD	DU	DOE HASL 300
	Uranium-235	pCi/g	-0.0396	±0.0944	0.122	0.0598	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	1.08	±0.502	0.342	0.167		NONE	DU	DOE HASL 300
S-34	Americium-241	pCi/g	0.034	±0.044	0.0697	0.0341	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0325	±0.0216	0.0266	0.0127		J	SA	DOE HASL 300
	Tritium	pCi/L	116	±90.1	137	57.8	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.12	±0.149	0.133	0.065	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	1.26	±0.791	0.645	0.316		J	SA	DOE HASL 300
S-45	Americium-241	pCi/g	-0.0436	±0.056	0.0857	0.0417	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0648	±0.0264	0.0202	0.00951		NONE	SA	DOE HASL 300
	Tritium	pCi/L	86	±84.6	136	57.6	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.11	±0.13	0.121	0.059	U	BD	SA	DOE HASL 300

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-46	Uranium-238	pCi/g	0.708	±0.85	0.748	0.365	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	0.069	±0.0833	0.137	0.0667	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0798	±0.0217	0.0211	0.0102		NONE	SA	DOE HASL 300
	Tritium	pCi/L	222	±167	260	117	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	-0.0144	±0.0901	0.127	0.0621	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.471	±1.37	1.05	0.51	U	BD	SA	DOE HASL 300
S-49	Americium-241	pCi/g	0.0152	±0.0212	0.0345	0.0169	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.143	±0.0328	0.0264	0.0126		NONE	SA	DOE HASL 300
	Tritium	pCi/L	200	±156	245	110	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0196	±0.0985	0.113	0.0549	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	1.33	±0.513	0.34	0.166		NONE	SA	DOE HASL 300
S-51	Americium-241	pCi/g	0.0196	±0.0788	0.135	0.0654	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0267	±0.0245	0.0228	0.011		J	SA	DOE HASL 300
	Tritium	pCi/L	52.4	±83.7	144	64.8	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0469	±0.114	0.121	0.0589	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.692	±1.6	1.04	0.508	U	BD	SA	DOE HASL 300
S-53	Americium-241	pCi/g	0.0254	±0.0305	0.0506	0.0246	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	0.0215	±0.0447	0.0772	0.0375	U	BD	DU	DOE HASL 300
	Cesium-137	pCi/g	0.0214	±0.0196	0.0207	0.00982		J	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0378	±0.026	0.0202	0.00954		J	DU	DOE HASL 300
	Tritium	pCi/L	25.9	±88.5	159	71.6	U	BD	DU	GL-RAD-A-002
	Tritium	pCi/L	61.8	±101	175	78.7	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.147	±0.126	0.0939	0.0455	X	R	SA	DOE HASL 300
	Uranium-235	pCi/g	0.0885	±0.119	0.102	0.0495	U	BD	DU	DOE HASL 300
	Uranium-238	pCi/g	0.92	±0.706	0.462	0.225		J	SA	DOE HASL 300
	Uranium-238	pCi/g	1.13	±0.969	0.643	0.313		J	DU	DOE HASL 300
S-55	Americium-241	pCi/g	-0.00243	±0.14	0.184	0.0909	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0835	±0.0243	0.0192	0.00928		NONE	SA	DOE HASL 300
	Tritium	pCi/L	93.9	±83.1	134	60.1	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0802	±0.128	0.127	0.0623	U	BD	SA	DOE HASL 300

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-57 S-57, cont.	Uranium-238	pCi/g	1.38	±1.44	1.37	0.676		BD	SA	DOE HASL 300
	Americium-241	pCi/g	0.00254	±0.013	0.0251	0.0123	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0241	±0.0219	0.0204	0.00978		J	SA	DOE HASL 300
	Tritium	pCi/L	90.5	±105	176	78.9	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0592	±0.0984	0.0987	0.0483	U	BD	SA	DOE HASL 300
S-76	Uranium-238	pCi/g	1.05	±0.441	0.256	0.125		NONE	SA	DOE HASL 300
	Americium-241	pCi/g	0.0109	±0.0546	0.0928	0.0452	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0481	±0.0385	0.0245	0.0117		J	SA	DOE HASL 300
	Tritium	pCi/L	116	±89.9	136	57.4	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.212	±0.171	0.138	0.0674	X	R	SA	DOE HASL 300
S-77	Uranium-238	pCi/g	1.72	±1.11	0.786	0.383		J	SA	DOE HASL 300
	Americium-241	pCi/g	0.0043	±0.0102	0.017	0.00836	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.262	±0.0436	0.0202	0.00973		NONE	SA	DOE HASL 300
	Tritium	pCi/L	193	±104	138	58.3		J	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.033	±0.0638	0.0675	0.0331	U	BD	SA	DOE HASL 300
S-86	Uranium-238	pCi/g	0.717	±0.272	0.175	0.086		NONE	SA	DOE HASL 300
	Americium-241	pCi/g	-0.0608	±0.0939	0.164	0.0803	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.102	±0.0277	0.0182	0.00879		NONE	SA	DOE HASL 300
	Tritium	pCi/L	314	±124	158	70.9		J	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0829	±0.109	0.105	0.0513	U	BD	SA	DOE HASL 300
S-90	Uranium-238	pCi/g	1.09	±1.49	1.19	0.583	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	-0.00553	±0.0409	0.0798	0.0389	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0475	±0.019	0.0205	0.00987		J	SA	DOE HASL 300
	Tritium	pCi/L	69.8	±90.4	153	64.8	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0133	±0.0628	0.0895	0.0438	U	BD	SA	DOE HASL 300
S-92	Uranium-238	pCi/g	0.284	±0.863	0.656	0.321	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	0.00419	±0.0118	0.0211	0.0104	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.118	±0.0234	0.0174	0.00842		NONE	SA	DOE HASL 300
	Tritium	pCi/L	18.7	±72	136	57.4	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0193	±0.0783	0.0761	0.0373	U	BD	SA	DOE HASL 300

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-4	Uranium-238	pCi/g	1.08	±0.341	0.212	0.104		NONE	SA	DOE HASL 300
	Americium-241	pCi/g	0.00946	±0.0101	0.0162	0.00798	U	BD	SA	DOE HASL 300
P-4, cont.	Cesium-137	pCi/g	0.102	±0.023	0.018	0.00866		NONE	SA	DOE HASL 300
	Tritium	pCi/L	166	±219	368	175	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.108	±0.0701	0.0618	0.0303		J	SA	DOE HASL 300
	Uranium-238	pCi/g	0.891	±0.279	0.16	0.0788		NONE	SA	DOE HASL 300
P-5	Americium-241	pCi/g	-0.0185	±0.0788	0.144	0.0712	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.136	±0.0225	0.0143	0.00692		NONE	SA	DOE HASL 300
	Tritium	pCi/L	108	±354	613	292	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0311	±0.101	0.0941	0.0463	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	-0.199	±0.819	1.11	0.548	U	BD	SA	DOE HASL 300
P-16	Americium-241	pCi/g	-0.0262	±0.0508	0.0944	0.0462	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0431	±0.0272	0.0238	0.0115		J	SA	DOE HASL 300
	Tritium	pCi/L	4.77	±154	270	129	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0859	±0.0918	0.105	0.0516	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.887	±1.02	0.768	0.377		BD	SA	DOE HASL 300
P-19	Americium-241	pCi/g	-0.000482	±0.074	0.124	0.0607	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.177	±0.0389	0.0258	0.0125		NONE	SA	DOE HASL 300
	Tritium	pCi/L	106	±111	184	87.6	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0731	±0.133	0.125	0.0612	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.412	±1.28	0.984	0.483	U	BD	SA	DOE HASL 300
P-58	Americium-241	pCi/g	-0.0533	±0.105	0.156	0.0766	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0357	±0.0254	0.0246	0.0119		J	SA	DOE HASL 300
	Tritium	pCi/L	68.5	±175	302	144	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.195	±0.131	0.139	0.0686		J	SA	DOE HASL 300
	Uranium-238	pCi/g	1.66	±1.62	1.27	0.626		J	SA	DOE HASL 300
P-59	Americium-241	pCi/g	0.00573	±0.00965	0.0162	0.00796	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.18	±0.0325	0.0185	0.00891		NONE	SA	DOE HASL 300
	Tritium	pCi/L	160	±299	511	243	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0612	±0.0616	0.0633	0.031	U	BD	SA	DOE HASL 300

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-63	Uranium-238	pCi/g	0.694	±0.287	0.163	0.0801		NONE	SA	DOE HASL 300
	Americium-241	pCi/g	0.0134	±0.0483	0.0891	0.0437	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.154	±0.0266	0.0195	0.00941		NONE	SA	DOE HASL 300
P-63, cont.	Tritium	pCi/L	-77.5	±112	204	97.4	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.042	±0.113	0.105	0.0513	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.647	±0.885	0.707	0.347	U	BD	SA	DOE HASL 300
P-64	Americium-241	pCi/g	-0.0155	±0.0697	0.115	0.0567	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	-0.0011	±0.0544	0.0907	0.0445	U	BD	DU	DOE HASL 300
	Cesium-137	pCi/g	0.0635	±0.0198	0.0181	0.00883		NONE	SA	DOE HASL 300
	Cesium-137	pCi/g	0.119	±0.0246	0.0212	0.0102		NONE	DU	DOE HASL 300
	Tritium	pCi/L	82.2	±109	184	87.7	U	BD	DU	GL-RAD-A-002
	Tritium	pCi/L	130	±128	211	101	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.062	±0.115	0.115	0.0565	U	BD	DU	DOE HASL 300
	Uranium-235	pCi/g	0.145	±0.118	0.103	0.0509		J	SA	DOE HASL 300
	Uranium-238	pCi/g	0.858	±1.13	0.908	0.447	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	1.53	±0.881	0.769	0.378		J	DU	DOE HASL 300
P-81	Americium-241	pCi/g	0.0354	±0.0414	0.0675	0.0331	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.183	±0.0267	0.0169	0.00811		NONE	SA	DOE HASL 300
	Tritium	pCi/L	-209	±179	334	159	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0581	±0.0624	0.0864	0.0423	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.921	±0.746	0.546	0.268		J	SA	DOE HASL 300
P-82	Americium-241	pCi/g	0.00424	±0.0444	0.0822	0.0402	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0446	±0.0226	0.0205	0.00987		J	SA	DOE HASL 300
	Tritium	pCi/L	393	±258	409	195	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0754	±0.11	0.0985	0.0483	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.309	±0.896	0.657	0.322	U	BD	SA	DOE HASL 300
P-95	Americium-241	pCi/g	0.00122	±0.00847	0.0147	0.00721	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.103	±0.0261	0.0178	0.00859		NONE	SA	DOE HASL 300
	Tritium	pCi/L	407	±171	248	118		J	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0894	±0.0644	0.0566	0.0277		J	SA	DOE HASL 300

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Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Uranium-238	pCi/g	0.855	±0.295	0.145	0.0709		NONE	SA	DOE HASL 300

^a Blank cells indicate that the laboratory did not qualify the data.

Laboratory Data Qualifier

U = The analyte was absent or below the method detection limit.

X = The data was rejected due to the peak not meeting identification criteria.

Data Validation Qualifier

BD = The associated value was below the detection limit as used in radiochemistry to identify results that are not statistically different from zero.

J = The associated numerical value was an estimated quantity.

None = There was no data validation assigned.

R = The data are unusable and rejected (compound may or may not be present).

Sample Type

DU = duplicate sample

SA = sample

Analytical Method

GL-RAD-A-002 (GL-RAD-A-002 2010)

HASL 300 (DOE 1997)

Table A-2. Radiological results in sediment, 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-72	Americium-241	pCi/g	-0.00649	±0.0197	0.0326	0.0159	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.125	±0.027	0.0228	0.0108		NONE	SA	DOE HASL 300
	Tritium	pCi/L	37.8	±73.4	128	57.7	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	-0.0118	±0.0728	0.117	0.0572	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.943	±0.462	0.338	0.166		J	SA	DOE HASL 300
S-74	Americium-241	pCi/g	0.00267	±0.0157	0.0288	0.0141	U	BD	SA	DOE HASL 300
	Americium-241	pCi/g	0.00109	±0.071	0.127	0.062	U	BD	DU	DOE HASL 300
	Cesium-137	pCi/g	0.0173	±0.0144	0.0208	0.01	U	BD	DU	DOE HASL 300
	Cesium-137	pCi/g	0.0108	±0.0138	0.0225	0.0108	U	BD	SA	DOE HASL 300
	Tritium	pCi/L	254	±118	161	72.2		J	DU	GL-RAD-A-002
	Tritium	pCi/L	8.86	±101	187	83.8	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0486	±0.108	0.107	0.052	U	BD	SA	DOE HASL 300
	Uranium-235	pCi/g	0.0785	±0.133	0.117	0.0573	U	BD	DU	DOE HASL 300
	Uranium-238	pCi/g	0.716	±0.489	0.287	0.14		J	SA	DOE HASL 300
	Uranium-238	pCi/g	1.47	±1.38	0.971	0.474		J	DU	DOE HASL 300
S-75	Americium-241	pCi/g	-0.000972	±0.0315	0.0554	0.0271	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0406	±0.024	0.0221	0.0106		J	SA	DOE HASL 300
	Uranium-235	pCi/g	0.0447	±0.127	0.11	0.0537	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.918	±0.692	0.495	0.242		J	SA	DOE HASL 300
S-85	Americium-241	pCi/g	-0.048	±0.102	0.16	0.0793	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0671	±0.0161	0.0157	0.00765		NONE	SA	DOE HASL 300
	Tritium	pCi/L	61	±78.9	134	56.5	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0000663	±0.12	0.106	0.0521	U	BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.561	±1.23	1.17	0.576	U	BD	SA	DOE HASL 300
S-91	Americium-241	pCi/g	-0.0368	±0.0304	0.0479	0.0236	U	BD	SA	DOE HASL 300
	Cesium-137	pCi/g	0.0842	±0.0203	0.0155	0.00747		NONE	SA	DOE HASL 300
	Tritium	pCi/L	180	±180	295	133	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0814	±0.0911	0.0774	0.038		BD	SA	DOE HASL 300
	Uranium-238	pCi/g	0.913	±0.647	0.434	0.214		J	SA	DOE HASL 300

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Units	Activity	Total Propagated Uncertainty	Minimum Detectable Activity	Critical Level	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-73	Americium-241	pCi/g	-0.00507	±0.0116	0.0207	0.0102	U	BD	SA	DOE HASL 300
P-73, cont.	Cesium-137	pCi/g	0.01	±0.0144	0.0157	0.00759	U	BD	SA	DOE HASL 300
	Tritium	pCi/L	66.6	±145	249	119	U	BD	SA	GL-RAD-A-002
	Uranium-235	pCi/g	0.0849	±0.0784	0.0736	0.0361		J	SA	DOE HASL 300
	Uranium-238	pCi/g	1.01	±0.373	0.209	0.103		NONE	SA	DOE HASL 300

^a Blank cells indicate that the laboratory did not qualify the data.

Laboratory Data Qualifier

U = The analyte was absent or below the method detection limit.

Data Validation Qualifier

BD = The associated value was below the detection limit as used in radiochemistry to identify results that are not statistically different from zero.

J = The associated numerical value was an estimated quantity.

None = There was no data validation assigned.

Sample Type

DU = duplicate sample

SA = sample

Analytical Method

GL-RAD-A-002 (GL-RAD-A-002 2010)

HASL 300 (DOE 1997)

Table A-3. Dosimeter measurements, 2024

Location Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Exposure (ambient dose mrem)	Exposure (ambient dose mrem)	Exposure (ambient dose mrem)	Exposure (ambient dose mrem)
S-1	15.1	19.1	13.4	18.1
S-6	10.1	15	13.9	18.6
S-7	11.9	17	16.5	18.8
S-20	9.8	19.6	16.1	18.6
S-45	15.5	17.4	15.8	19.6
S-46	16.4	17	16.9	18.8
S-48	15.2	15.9	17.1	21.6
P-4	10.9	16.9	16.7	19.5
P-5	12.6	17.4	15.9	17.1
P-16	19.1	24.4	21.7	24.5
P-19	15.2	20.3	16.5	20.2
P-39	14.1	16.3	16.1	16.3
P-40	14.8	17	13.7	20.8
P-81	15.4	17.2	15.5	18.9

Table A-4. Nonradiological results in soil, 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-4	Aluminum	8,130	4.21	9.24		J	SA	SW846 3050B/6020B
	Antimony	0.386	0.299	1.81	JB	1.81U	SA	SW846 3050B/6010D
	Arsenic	2.43	0.312	0.924	N	J	SA	SW846 3050B/6020B
	Beryllium	0.367	0.0185	0.0924		NONE	SA	SW846 3050B/6020B
	Cadmium	0.124	0.0185	0.185	J	NONE	SA	SW846 3050B/6020B
	Chromium	7.2	0.185	0.555		NONE	SA	SW846 3050B/6020B
	Copper	5.23	0.061	0.37		NONE	SA	SW846 3050B/6020B
	Iron	7,480	6.1	18.5		J	SA	SW846 3050B/6020B
	Lead	7.2	0.0924	0.37	N	J	SA	SW846 3050B/6020B
	Magnesium	2,650	1.85	5.55		NONE	SA	SW846 3050B/6020B
	Nickel	6.03	0.0924	0.37		NONE	SA	SW846 3050B/6020B
	Selenium	1.33	0.333	0.924		NONE	SA	SW846 3050B/6020B
	Silver	0.0906	0.0906	0.453	U	NONE	SA	SW846 3050B/6010D
	Thallium	0.129	0.129	0.37	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.307	0.0122	0.037		NONE	SA	SW846 3050B/6020B
	Zinc	24.9	0.739	3.7		J	SA	SW846 3050B/6020B
P-5	Aluminum	5,770	4.52	9.94		J	SA	SW846 3050B/6020B
	Antimony	0.3	0.3	1.82	U	NONE	SA	SW846 3050B/6010D
	Arsenic	1.48	0.336	0.994	N	J	SA	SW846 3050B/6020B
	Beryllium	0.28	0.0199	0.0994		NONE	SA	SW846 3050B/6020B
	Cadmium	0.0869	0.0199	0.199	J	NONE	SA	SW846 3050B/6020B
	Chromium	5	0.199	0.596		NONE	SA	SW846 3050B/6020B
	Copper	3.94	0.0656	0.398		NONE	SA	SW846 3050B/6020B
	Iron	5,270	6.56	19.9		J	SA	SW846 3050B/6020B
	Lead	5.69	0.0994	0.398	N	J	SA	SW846 3050B/6020B
	Magnesium	1,340	1.99	5.96		NONE	SA	SW846 3050B/6020B
	Nickel	3.8	0.0994	0.398		NONE	SA	SW846 3050B/6020B
	Selenium	0.864	0.358	0.994	J	NONE	SA	SW846 3050B/6020B
	Silver	0.0909	0.0909	0.455	U	0.46UJ	SA	SW846 3050B/6010D

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-5, cont.	Thallium	0.139	0.139	0.398	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.206	0.0131	0.0398		NONE	SA	SW846 3050B/6020B
	Zinc	19.5	0.795	3.98		J	SA	SW846 3050B/6020B
P-16	Aluminum	14,700	43.9	96.5		J	SA	SW846 3050B/6020B
	Antimony	0.328	0.328	1.99	U	NONE	SA	SW846 3050B/6010D
	Arsenic	3.41	0.326	0.965	N	J	SA	SW846 3050B/6020B
	Beryllium	0.692	0.0193	0.0965		NONE	SA	SW846 3050B/6020B
	Cadmium	0.174	0.0193	0.193	J	NONE	SA	SW846 3050B/6020B
	Chromium	9	0.193	0.579		NONE	SA	SW846 3050B/6020B
	Copper	35.7	0.0637	0.386		NONE	SA	SW846 3050B/6020B
	Iron	18,500	63.7	193		J	SA	SW846 3050B/6020B
	Lead	10.2	0.0965	0.386	N	J	SA	SW846 3050B/6020B
	Magnesium	5,690	1.93	5.79		NONE	SA	SW846 3050B/6020B
	Nickel	10.4	0.0965	0.386		NONE	SA	SW846 3050B/6020B
	Selenium	3.07	0.347	0.965		NONE	SA	SW846 3050B/6020B
	Silver	0.0994	0.0994	0.497	U	0.50UJ	SA	SW846 3050B/6010D
	Thallium	0.203	0.135	0.386	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.705	0.0127	0.0386		NONE	SA	SW846 3050B/6020B
	Zinc	62	0.772	3.86		J	SA	SW846 3050B/6020B
P-19	Aluminum	12,800	40.6	89.3		J	SA	SW846 3050B/6020B
	Antimony	0.286	0.286	1.74	U	NONE	SA	SW846 3050B/6010D
	Arsenic	3.19	0.302	0.893	N	J	SA	SW846 3050B/6020B
	Beryllium	0.553	0.0179	0.0893		NONE	SA	SW846 3050B/6020B
	Cadmium	0.182	0.0179	0.179		NONE	SA	SW846 3050B/6020B
	Chromium	16.5	0.179	0.536		NONE	SA	SW846 3050B/6020B
	Copper	16.5	0.0589	0.357		NONE	SA	SW846 3050B/6020B
	Iron	13,400	58.9	179		J	SA	SW846 3050B/6020B
	Lead	17.2	0.0893	0.357	N	J	SA	SW846 3050B/6020B
	Magnesium	4,400	1.79	5.36		NONE	SA	SW846 3050B/6020B
	Nickel	13.9	0.0893	0.357		NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-19, cont.	Selenium	1.82	0.321	0.893		NONE	SA	SW846 3050B/6020B
	Silver	0.0868	0.0868	0.434	U	0.43UJ	SA	SW846 3050B/6010D
	Thallium	0.151	0.125	0.357	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.372	0.0118	0.0357		NONE	SA	SW846 3050B/6020B
	Zinc	63.9	0.714	3.57		J	SA	SW846 3050B/6020B
P-58	Aluminum	10,000	43.8	96.3		J	SA	SW846 3050B/6020B
	Antimony	0.33	0.33	2	U	NONE	SA	SW846 3050B/6010D
	Arsenic	3.07	0.326	0.963	N	J	SA	SW846 3050B/6020B
	Beryllium	0.45	0.0193	0.0963		NONE	SA	SW846 3050B/6020B
	Cadmium	0.162	0.0193	0.193	J	NONE	SA	SW846 3050B/6020B
	Chromium	8.65	0.193	0.578		NONE	SA	SW846 3050B/6020B
	Copper	8.77	0.0636	0.385		NONE	SA	SW846 3050B/6020B
	Iron	10,900	63.6	193		J	SA	SW846 3050B/6020B
	Lead	12.3	0.0963	0.385	N	J	SA	SW846 3050B/6020B
	Magnesium	4,150	1.93	5.78		NONE	SA	SW846 3050B/6020B
	Nickel	7.76	0.0963	0.385		NONE	SA	SW846 3050B/6020B
	Selenium	1.71	0.347	0.963		NONE	SA	SW846 3050B/6020B
	Silver	0.1	0.1	0.5	U	0.50UJ	SA	SW846 3050B/6010D
	Thallium	0.135	0.135	0.385	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.562	0.0127	0.0385		NONE	SA	SW846 3050B/6020B
	Zinc	46.1	0.771	3.85		J	SA	SW846 3050B/6020B
P-63	Aluminum	14,800	45.3	99.6		J	SA	SW846 3050B/6020B
	Antimony	0.356	0.304	1.84	JB	1.84U	SA	SW846 3050B/6010D
	Arsenic	3.82	0.337	0.996	N	J	SA	SW846 3050B/6020B
	Beryllium	0.687	0.0199	0.0996		NONE	SA	SW846 3050B/6020B
	Cadmium	0.281	0.0199	0.199		NONE	SA	SW846 3050B/6020B
	Chromium	14.1	0.199	0.598		NONE	SA	SW846 3050B/6020B
	Copper	9.9	0.0657	0.398		NONE	SA	SW846 3050B/6020B
	Iron	14,200	65.7	199		J	SA	SW846 3050B/6020B
	Lead	11.1	0.0996	0.398	N	J	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-63, cont.	Magnesium	3,960	1.99	5.98		NONE	SA	SW846 3050B/6020B
	Nickel	11.7	0.0996	0.398		NONE	SA	SW846 3050B/6020B
	Selenium	2.15	0.359	0.996		NONE	SA	SW846 3050B/6020B
	Silver	0.0921	0.0921	0.46	U	0.46UJ	SA	SW846 3050B/6010D
	Thallium	0.139	0.139	0.398	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.533	0.0131	0.0398		NONE	SA	SW846 3050B/6020B
	Zinc	45.3	0.797	3.98		J	SA	SW846 3050B/6020B
P-64	Aluminum	13,000	43.8	96.3		J	SA	SW846 3050B/6020B
	Aluminum	14,600	39.7	87.3		J	DU	SW846 3050B/6020B
	Antimony	0.282	0.282	1.71	U	NONE	SA	SW846 3050B/6010D
	Antimony	1.43	1.43	8.67	U	NONE	DU	SW846 3050B/6010D
	Arsenic	3.48	0.326	0.963	N	J	SA	SW846 3050B/6020B
	Arsenic	4.24	0.295	0.873	N	J	DU	SW846 3050B/6020B
	Beryllium	0.583	0.0193	0.0963		NONE	SA	SW846 3050B/6020B
	Beryllium	0.623	0.0175	0.0873		NONE	DU	SW846 3050B/6020B
	Cadmium	0.118	0.0193	0.193	J	NONE	SA	SW846 3050B/6020B
	Cadmium	0.203	0.0175	0.175		NONE	DU	SW846 3050B/6020B
	Chromium	7.44	0.193	0.578		NONE	SA	SW846 3050B/6020B
	Chromium	8.28	0.175	0.524		NONE	DU	SW846 3050B/6020B
	Copper	13	0.0636	0.385		NONE	SA	SW846 3050B/6020B
	Copper	14.6	0.0576	0.349		NONE	DU	SW846 3050B/6020B
	Iron	20,200	63.6	193		J	SA	SW846 3050B/6020B
	Iron	22,600	57.6	175		J	DU	SW846 3050B/6020B
	Lead	9.24	0.0963	0.385	N	J	SA	SW846 3050B/6020B
	Lead	9.69	0.0873	0.349	N	J	DU	SW846 3050B/6020B
	Magnesium	7,300	1.93	5.78		NONE	SA	SW846 3050B/6020B
	Magnesium	8,100	1.75	5.24		NONE	DU	SW846 3050B/6020B
	Nickel	9.13	0.0963	0.385		NONE	SA	SW846 3050B/6020B
	Nickel	10.2	0.0873	0.349		NONE	DU	SW846 3050B/6020B
	Selenium	4.61	0.347	0.963		NONE	SA	SW846 3050B/6020B

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Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-64, cont.	Selenium	5.67	0.314	0.873		NONE	DU	SW846 3050B/6020B
	Silver	0.427	0.427	2.13	U	NONE	SA	SW846 3050B/6010D
	Silver	0.433	0.433	2.17	U	2.2UJ	DU	SW846 3050B/6010D
	Thallium	0.135	0.135	0.385	U	NONE	SA	SW846 3050B/6020B
	Thallium	0.124	0.122	0.349	J	NONE	DU	SW846 3050B/6020B
	Uranium	0.777	0.0127	0.0385		NONE	SA	SW846 3050B/6020B
	Uranium	0.894	0.0115	0.0349		NONE	DU	SW846 3050B/6020B
	Zinc	76.7	0.771	3.85		J	SA	SW846 3050B/6020B
	Zinc	83.3	0.698	3.49		J	DU	SW846 3050B/6020B
P-81	Aluminum	8,910	4.45	9.78		J	SA	SW846 3050B/6020B
	Antimony	0.299	0.299	1.81	U	NONE	SA	SW846 3050B/6010D
	Arsenic	1.92	0.331	0.978	N	J	SA	SW846 3050B/6020B
	Beryllium	0.454	0.0196	0.0978		NONE	SA	SW846 3050B/6020B
	Cadmium	0.132	0.0196	0.196	J	NONE	SA	SW846 3050B/6020B
	Chromium	7.69	0.196	0.587		NONE	SA	SW846 3050B/6020B
	Copper	6.64	0.0646	0.391		NONE	SA	SW846 3050B/6020B
	Iron	7,900	6.46	19.6		J	SA	SW846 3050B/6020B
	Lead	8.51	0.0978	0.391	N	J	SA	SW846 3050B/6020B
	Magnesium	2,200	1.96	5.87		NONE	SA	SW846 3050B/6020B
	Nickel	6.45	0.0978	0.391		NONE	SA	SW846 3050B/6020B
	Selenium	1.42	0.352	0.978		NONE	SA	SW846 3050B/6020B
	Silver	0.0907	0.0907	0.454	U	0.45UJ	SA	SW846 3050B/6010D
	Thallium	0.137	0.137	0.391	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.324	0.0129	0.0391		NONE	SA	SW846 3050B/6020B
	Zinc	26.3	0.783	3.91		J	SA	SW846 3050B/6020B
P-82	Aluminum	8,420	4.29	9.43		J	SA	SW846 3050B/6020B
	Antimony	0.591	0.318	1.93	JB	1.93U	SA	SW846 3050B/6010D
	Arsenic	3.73	0.319	0.943	N	J	SA	SW846 3050B/6020B
	Beryllium	0.437	0.0189	0.0943		NONE	SA	SW846 3050B/6020B
	Cadmium	0.129	0.0189	0.189	J	NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-82, cont.	Chromium	6.28	0.189	0.566		NONE	SA	SW846 3050B/6020B
	Copper	7.47	0.0623	0.377		NONE	SA	SW846 3050B/6020B
	Iron	7,900	6.23	18.9		J	SA	SW846 3050B/6020B
	Lead	12.9	0.0943	0.377	N	J	SA	SW846 3050B/6020B
	Magnesium	3,450	1.89	5.66		NONE	SA	SW846 3050B/6020B
	Nickel	6.35	0.0943	0.377		NONE	SA	SW846 3050B/6020B
	Selenium	1.4	0.34	0.943		NONE	SA	SW846 3050B/6020B
	Silver	0.0963	0.0963	0.482	U	0.48UJ	SA	SW846 3050B/6010D
	Thallium	0.132	0.132	0.377	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.647	0.0125	0.0377		NONE	SA	SW846 3050B/6020B
P-95	Zinc	34.5	0.755	3.77		J	SA	SW846 3050B/6020B
	Aluminum	10,000	43.8	96.2		J	SA	SW846 3050B/6020B
	Antimony	0.554	0.319	1.93	JB	1.93U	SA	SW846 3050B/6010D
	Arsenic	2.16	0.325	0.962	N	J	SA	SW846 3050B/6020B
	Beryllium	0.399	0.0192	0.0962		NONE	SA	SW846 3050B/6020B
	Cadmium	0.127	0.0192	0.192	J	NONE	SA	SW846 3050B/6020B
	Chromium	8.4	0.192	0.577		NONE	SA	SW846 3050B/6020B
	Copper	6.45	0.0635	0.385		NONE	SA	SW846 3050B/6020B
	Iron	8,310	6.35	19.2		J	SA	SW846 3050B/6020B
	Lead	8.67	0.0962	0.385	N	J	SA	SW846 3050B/6020B
	Magnesium	2,790	1.92	5.77		NONE	SA	SW846 3050B/6020B
	Nickel	6.93	0.0962	0.385		NONE	SA	SW846 3050B/6020B
	Selenium	1.16	0.346	0.962		NONE	SA	SW846 3050B/6020B
	Silver	0.0965	0.0965	0.483	U	0.48UJ	SA	SW846 3050B/6010D
	Thallium	0.135	0.135	0.385	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.257	0.0127	0.0385		NONE	SA	SW846 3050B/6020B
	Zinc	27.8	0.769	3.85		J	SA	SW846 3050B/6020B
S-1	Aluminum	12,400	39.8	87.4		J	SA	SW846 3050B/6020B
	Antimony	0.311	0.311	1.88	U	NONE	SA	SW846 3050B/6010D
	Arsenic	3.00	0.295	0.874	N	J	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Beryllium	0.548	0.0175	0.0874		NONE	SA	SW846 3050B/6020B
	Cadmium	0.233	0.0175	0.175		NONE	SA	SW846 3050B/6020B
	Chromium	10.5	0.175	0.524		NONE	SA	SW846 3050B/6020B
	Copper	11.4	0.0577	0.35		NONE	SA	SW846 3050B/6020B
	Iron	14,500	57.7	175		J	SA	SW846 3050B/6020B
	Lead	11.4	0.0874	0.35	N	J	SA	SW846 3050B/6020B
S-1, cont.	Magnesium	4,670	1.75	5.24		NONE	SA	SW846 3050B/6020B
	Nickel	10.5	0.0874	0.35		NONE	SA	SW846 3050B/6020B
	Selenium	1.95	0.315	0.874		NONE	SA	SW846 3050B/6020B
	Silver	0.0942	0.0942	0.471	U	0.47UJ	SA	SW846 3050B/6010D
	Thallium	0.157	0.122	0.35	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.634	0.0115	0.035		NONE	SA	SW846 3050B/6020B
	Zinc	50.8	0.699	3.5		J	SA	SW846 3050B/6020B
S-6	Aluminum	4,720	4.23	9.29		J	SA	SW846 3050B/6020B
	Antimony	0.308	0.308	1.87	U	NONE	SA	SW846 3050B/6010D
	Arsenic	1.57	0.314	0.929	N	J	SA	SW846 3050B/6020B
	Beryllium	0.236	0.0186	0.0929		NONE	SA	SW846 3050B/6020B
	Cadmium	0.145	0.0186	0.186	J	NONE	SA	SW846 3050B/6020B
	Chromium	4.75	0.186	0.558		NONE	SA	SW846 3050B/6020B
	Copper	8.9	0.0613	0.372		NONE	SA	SW846 3050B/6020B
	Iron	4,870	6.13	18.6		J	SA	SW846 3050B/6020B
	Lead	3.88	0.0929	0.372	N	J	SA	SW846 3050B/6020B
	Magnesium	1,470	1.86	5.58		NONE	SA	SW846 3050B/6020B
	Nickel	6.66	0.0929	0.372		NONE	SA	SW846 3050B/6020B
	Selenium	0.762	0.335	0.929	J	NONE	SA	SW846 3050B/6020B
	Silver	0.0933	0.0933	0.466	U	0.47UJ	SA	SW846 3050B/6010D
	Thallium	0.13	0.13	0.372	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.268	0.0123	0.0372		NONE	SA	SW846 3050B/6020B
	Zinc	29.6	0.743	3.72		J	SA	SW846 3050B/6020B
S-33	Aluminum	11,400	43.6	95.8		J	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Aluminum	11,200	43.7	96		J	DU	SW846 3050B/6020B
	Antimony	0.324	0.324	1.96	U	NONE	SA	SW846 3050B/6010D
	Antimony	0.295	0.295	1.79	U	NONE	DU	SW846 3050B/6010D
	Arsenic	6.24	0.324	0.958	N	J	SA	SW846 3050B/6020B
	Arsenic	5.49	0.324	0.96	N	J	DU	SW846 3050B/6020B
	Beryllium	0.947	0.0192	0.0958		NONE	SA	SW846 3050B/6020B
	Beryllium	0.942	0.0192	0.096		NONE	DU	SW846 3050B/6020B
S-33	Cadmium	0.531	0.0192	0.192		NONE	SA	SW846 3050B/6020B
	Cadmium	0.395	0.0192	0.192		NONE	DU	SW846 3050B/6020B
	Chromium	11.3	0.192	0.575		NONE	SA	SW846 3050B/6020B
	Chromium	10.6	0.192	0.576		NONE	DU	SW846 3050B/6020B
	Copper	11.2	0.0632	0.383		NONE	SA	SW846 3050B/6020B
	Copper	10.6	0.0633	0.384		NONE	DU	SW846 3050B/6020B
	Iron	12,500	63.2	192		J	SA	SW846 3050B/6020B
	Iron	11,600	63.3	192		J	DU	SW846 3050B/6020B
	Lead	12.7	0.0958	0.383	N	J	SA	SW846 3050B/6020B
	Lead	12.6	0.096	0.384	N	J	DU	SW846 3050B/6020B
	Magnesium	4,840	1.92	5.75		NONE	SA	SW846 3050B/6020B
	Magnesium	4,540	1.92	5.76		NONE	DU	SW846 3050B/6020B
	Nickel	11.9	0.0958	0.383		NONE	SA	SW846 3050B/6020B
	Nickel	11.5	0.096	0.384		NONE	DU	SW846 3050B/6020B
	Selenium	1.92	0.345	0.958		NONE	SA	SW846 3050B/6020B
	Selenium	1.92	0.345	0.96		NONE	DU	SW846 3050B/6020B
	Silver	0.098	0.098	0.49	U	0.49UJ	SA	SW846 3050B/6010D
	Silver	0.0894	0.0894	0.447	U	0.45UJ	DU	SW846 3050B/6010D
	Thallium	0.149	0.134	0.383	J	NONE	SA	SW846 3050B/6020B
	Thallium	0.144	0.134	0.384	J	NONE	DU	SW846 3050B/6020B
	Uranium	0.756	0.0126	0.0383		NONE	SA	SW846 3050B/6020B
	Uranium	0.689	0.0127	0.0384		NONE	DU	SW846 3050B/6020B
	Zinc	67.2	0.766	3.83		J	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-34	Zinc	62.7	0.768	3.84		J	DU	SW846 3050B/6020B
	Aluminum	15,000	41.2	90.6		J	SA	SW846 3050B/6020B
	Antimony	0.309	0.309	1.87	U	1.87UJ	SA	SW846 3050B/6010D
	Arsenic	4.47	0.306	0.906		NONE	SA	SW846 3050B/6020B
	Beryllium	0.668	0.0181	0.0906		NONE	SA	SW846 3050B/6020B
	Cadmium	0.303	0.0181	0.181		NONE	SA	SW846 3050B/6020B
	Chromium	13.8	0.181	0.543		NONE	SA	SW846 3050B/6020B
S-34, cont.	Copper	9.51	0.0598	0.362		NONE	SA	SW846 3050B/6020B
	Iron	14,500	59.8	181		J	SA	SW846 3050B/6020B
	Lead	10.5	0.0906	0.362		NONE	SA	SW846 3050B/6020B
	Magnesium	3,620	1.81	5.43		NONE	SA	SW846 3050B/6020B
	Nickel	12.7	0.0906	0.362		NONE	SA	SW846 3050B/6020B
	Selenium	1.1	0.326	0.906	N	J	SA	SW846 3050B/6020B
	Silver	0.0936	0.0936	0.468	U	NONE	SA	SW846 3050B/6010D
	Thallium	0.171	0.127	0.362	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.458	0.012	0.0362	B	NONE	SA	SW846 3050B/6020B
S-45	Zinc	37.5	0.725	3.62		J	SA	SW846 3050B/6020B
	Aluminum	8,940	4.15	9.12		J	SA	SW846 3050B/6020B
	Antimony	0.308	0.308	1.87	U	1.87UJ	SA	SW846 3050B/6010D
	Arsenic	2.48	0.308	0.912		NONE	SA	SW846 3050B/6020B
	Beryllium	0.389	0.0182	0.0912		NONE	SA	SW846 3050B/6020B
	Cadmium	0.115	0.0182	0.182	J	NONE	SA	SW846 3050B/6020B
	Chromium	7.57	0.182	0.547		NONE	SA	SW846 3050B/6020B
	Copper	5.88	0.0602	0.365		NONE	SA	SW846 3050B/6020B
	Iron	7,390	6.02	18.2		J	SA	SW846 3050B/6020B
	Lead	6.84	0.0912	0.365		NONE	SA	SW846 3050B/6020B
	Magnesium	2,720	1.82	5.47		NONE	SA	SW846 3050B/6020B
	Nickel	6.32	0.0912	0.365		NONE	SA	SW846 3050B/6020B
	Selenium	0.73	0.328	0.912	JN	J	SA	SW846 3050B/6020B
	Silver	0.0933	0.0933	0.466	U	NONE	SA	SW846 3050B/6010D

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Thallium	0.128	0.128	0.365	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.328	0.012	0.0365	B	NONE	SA	SW846 3050B/6020B
	Zinc	26.3	0.73	3.65		J	SA	SW846 3050B/6020B
S-51	Aluminum	12,700	45	98.8		J	SA	SW846 3050B/6020B
	Antimony	0.303	0.303	1.84	U	1.84UJ	SA	SW846 3050B/6010D
	Arsenic	2.97	0.334	0.988		NONE	SA	SW846 3050B/6020B
	Beryllium	0.58	0.0198	0.0988		NONE	SA	SW846 3050B/6020B
	Cadmium	0.101	0.0198	0.198	J	NONE	SA	SW846 3050B/6020B
	Chromium	29.4	0.198	0.593		NONE	SA	SW846 3050B/6020B
S-51, cont.	Copper	9.41	0.0652	0.395		NONE	SA	SW846 3050B/6020B
	Iron	9,860	6.52	19.8		J	SA	SW846 3050B/6020B
	Lead	8.76	0.0988	0.395		NONE	SA	SW846 3050B/6020B
	Magnesium	3,580	1.98	5.93		NONE	SA	SW846 3050B/6020B
	Nickel	8.85	0.0988	0.395		NONE	SA	SW846 3050B/6020B
	Selenium	0.901	0.356	0.988	JN	J	SA	SW846 3050B/6020B
	Silver	0.219	0.0919	0.46	J	0.46U	SA	SW846 3050B/6010D
	Thallium	0.141	0.138	0.395	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.395	0.013	0.0395	B	NONE	SA	SW846 3050B/6020B
	Zinc	60.4	0.791	3.95		J	SA	SW846 3050B/6020B
S-53	Aluminum	7,360	4.32	9.49		J	SA	SW846 3050B/6020B
	Aluminum	7,550	4.08	8.96		J	DU	SW846 3050B/6020B
	Antimony	0.33	0.33	2	U	2.00UJ	SA	SW846 3050B/6010D
	Antimony	0.469	0.319	1.93	J	J-	DU	SW846 3050B/6010D
	Arsenic	1.73	0.321	0.949		NONE	SA	SW846 3050B/6020B
	Arsenic	1.79	0.303	0.896		NONE	DU	SW846 3050B/6020B
	Beryllium	0.304	0.019	0.0949		NONE	SA	SW846 3050B/6020B
	Beryllium	0.356	0.0179	0.0896		NONE	DU	SW846 3050B/6020B
	Cadmium	0.131	0.019	0.19	J	NONE	SA	SW846 3050B/6020B
	Cadmium	0.122	0.0179	0.179	J	NONE	DU	SW846 3050B/6020B
	Chromium	6.09	0.19	0.569		NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Chromium	6.02	0.179	0.538		NONE	DU	SW846 3050B/6020B
	Copper	5.04	0.0626	0.38		NONE	SA	SW846 3050B/6020B
	Copper	5.03	0.0591	0.358		NONE	DU	SW846 3050B/6020B
	Iron	6,430	6.26	19		J	SA	SW846 3050B/6020B
	Iron	6,250	5.91	17.9		J	DU	SW846 3050B/6020B
	Lead	6.36	0.0949	0.38		NONE	SA	SW846 3050B/6020B
	Lead	6.48	0.0896	0.358		NONE	DU	SW846 3050B/6020B
	Magnesium	2,030	1.9	5.69		NONE	SA	SW846 3050B/6020B
	Magnesium	2,030	1.79	5.38		NONE	DU	SW846 3050B/6020B
	Nickel	5.06	0.0949	0.38		NONE	SA	SW846 3050B/6020B
S-53, cont.	Nickel	5.06	0.0896	0.358		NONE	DU	SW846 3050B/6020B
	Selenium	0.631	0.342	0.949	JN	J	SA	SW846 3050B/6020B
	Selenium	0.542	0.323	0.896	JN	J	DU	SW846 3050B/6020B
	Silver	0.107	0.1	0.5	J	0.50U	SA	SW846 3050B/6010D
	Silver	0.0965	0.0965	0.483	U	NONE	DU	SW846 3050B/6010D
	Thallium	0.133	0.133	0.38	U	NONE	SA	SW846 3050B/6020B
	Thallium	0.125	0.125	0.358	U	NONE	DU	SW846 3050B/6020B
	Uranium	0.282	0.0125	0.038	B	NONE	SA	SW846 3050B/6020B
	Uranium	0.284	0.0118	0.0358	B	NONE	DU	SW846 3050B/6020B
	Zinc	20	0.759	3.8		J	SA	SW846 3050B/6020B
S-55	Zinc	20.8	0.717	3.58		J	DU	SW846 3050B/6020B
	Aluminum	10,700	44.6	98		J	SA	SW846 3050B/6020B
	Antimony	0.322	0.322	1.95	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.43	0.331	0.98		NONE	SA	SW846 3050B/6020B
	Beryllium	0.461	0.0196	0.098		NONE	SA	SW846 3050B/6020B
	Cadmium	0.126	0.0196	0.196	J	NONE	SA	SW846 3050B/6020B
	Chromium	8.7	0.196	0.588		NONE	SA	SW846 3050B/6020B
	Copper	6.23	0.0647	0.392		NONE	SA	SW846 3050B/6020B
	Iron	8,700	6.47	19.6		J	SA	SW846 3050B/6020B
	Lead	7.65	0.098	0.392		NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Magnesium	3,240	1.96	5.88		NONE	SA	SW846 3050B/6020B
	Nickel	7.28	0.098	0.392		NONE	SA	SW846 3050B/6020B
	Selenium	0.877	0.353	0.98	JN	J	SA	SW846 3050B/6020B
	Silver	0.118	0.0977	0.488	J	NONE	SA	SW846 3050B/6010D
	Thallium	0.137	0.137	0.392	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.355	0.0129	0.0392	B	NONE	SA	SW846 3050B/6020B
	Zinc	27.8	0.784	3.92		J	SA	SW846 3050B/6020B
S-57	Aluminum	8,910	4.39	9.65		J	SA	SW846 3050B/6020B
	Antimony	0.355	0.32	1.94	J	NONE	SA	SW846 3050B/6010D
	Arsenic	3.44	0.326	0.965		NONE	SA	SW846 3050B/6020B
	Beryllium	0.411	0.0193	0.0965		NONE	SA	SW846 3050B/6020B
S-57, cont.	Cadmium	0.151	0.0193	0.193	J	NONE	SA	SW846 3050B/6020B
	Chromium	11.3	0.193	0.579		NONE	SA	SW846 3050B/6020B
	Copper	8.94	0.0637	0.386		NONE	SA	SW846 3050B/6020B
	Iron	11,500	63.7	193		J	SA	SW846 3050B/6020B
	Lead	9.39	0.0965	0.386		NONE	SA	SW846 3050B/6020B
	Magnesium	5,020	1.93	5.79		NONE	SA	SW846 3050B/6020B
	Nickel	9.09	0.0965	0.386		NONE	SA	SW846 3050B/6020B
	Selenium	0.939	0.347	0.965	JN	J	SA	SW846 3050B/6020B
	Silver	0.241	0.0971	0.485	J	NONE	SA	SW846 3050B/6010D
	Thallium	0.135	0.135	0.386	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.875	0.0127	0.0386	B	NONE	SA	SW846 3050B/6020B
	Zinc	60.2	0.772	3.86		J	SA	SW846 3050B/6020B
S-90	Aluminum	10,500	45.1	99.2		J	SA	SW846 3050B/6020B
	Antimony	0.313	0.313	1.9	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.19	0.335	0.992		NONE	SA	SW846 3050B/6020B
	Beryllium	0.41	0.0198	0.0992		NONE	SA	SW846 3050B/6020B
	Cadmium	0.0917	0.0198	0.198	J	NONE	SA	SW846 3050B/6020B
	Chromium	8.23	0.198	0.595		NONE	SA	SW846 3050B/6020B
	Copper	6.4	0.0655	0.397		NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Iron	8,260	6.55	19.8		J	SA	SW846 3050B/6020B
	Lead	6.9	0.0992	0.397		NONE	SA	SW846 3050B/6020B
	Magnesium	2,230	1.98	5.95		NONE	SA	SW846 3050B/6020B
	Nickel	6.62	0.0992	0.397		NONE	SA	SW846 3050B/6020B
	Selenium	0.668	0.357	0.992	JN	J	SA	SW846 3050B/6020B
	Silver	0.0949	0.0949	0.474	U	NONE	SA	SW846 3050B/6010D
	Thallium	0.139	0.139	0.397	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.307	0.0131	0.0397	B	NONE	SA	SW846 3050B/6020B
	Zinc	22.5	0.794	3.97		J	SA	SW846 3050B/6020B
S-92	Aluminum	16,900	43.8	96.3		J	SA	SW846 3050B/6020B
	Antimony	0.318	0.318	1.93	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.91	0.326	0.963		NONE	SA	SW846 3050B/6020B
S-92, cont.	Beryllium	0.666	0.0193	0.0963		NONE	SA	SW846 3050B/6020B
	Cadmium	0.112	0.0193	0.193	J	NONE	SA	SW846 3050B/6020B
	Chromium	11.8	0.193	0.578		NONE	SA	SW846 3050B/6020B
	Copper	8.74	0.0636	0.385		NONE	SA	SW846 3050B/6020B
	Iron	13,100	63.6	193		J	SA	SW846 3050B/6020B
	Lead	9.09	0.0963	0.385		NONE	SA	SW846 3050B/6020B
	Magnesium	3,260	1.93	5.78		NONE	SA	SW846 3050B/6020B
	Nickel	9.28	0.0963	0.385		NONE	SA	SW846 3050B/6020B
	Selenium	0.865	0.347	0.963	JN	J	SA	SW846 3050B/6020B
	Silver	0.0963	0.0963	0.482	U	NONE	SA	SW846 3050B/6010D
	Thallium	0.155	0.135	0.385	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.412	0.0127	0.0385	B	NONE	SA	SW846 3050B/6020B
	Zinc	31.4	0.771	3.85		J	SA	SW846 3050B/6020B

^a Blank cells indicate that the laboratory did not qualify the data.

Laboratory Data Qualifiers

B = Analyte found in the blank and the sample.

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

N = A spike was outside limits.

U = The analyte was absent or below the method detection limit.

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Data Validation Qualifiers

J = The associated value was an estimated quantity.

None = There was no data validation assigned.

U = The analyte was analyzed for but was not detected. The associated numerical value was the sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The associated value was an estimate and might be inaccurate or imprecise.

Sample Type

DU = duplicate sample

SA = sample

Analytical Method

SW-846 (EPA 1986)

Table A-5. Nonradiological results in sediment, 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
P-73	Aluminum	4,140	4.03	8.87		J	SA	SW846 3050B/6020B
	Antimony	0.744	0.311	1.88	JB	1.88U	SA	SW846 3050B/6010D
	Arsenic	1.38	0.3	0.887	N	J	SA	SW846 3050B/6020B
	Beryllium	0.256	0.0177	0.0887		NONE	SA	SW846 3050B/6020B
	Cadmium	0.118	0.0177	0.177	J	NONE	SA	SW846 3050B/6020B
	Chromium	3.9	0.177	0.532		NONE	SA	SW846 3050B/6020B
	Copper	5.76	0.0585	0.355		NONE	SA	SW846 3050B/6020B
	Iron	7,360	5.85	17.7		J	SA	SW846 3050B/6020B
	Lead	3.81	0.0887	0.355	N	J	SA	SW846 3050B/6020B
	Magnesium	2,370	1.77	5.32		NONE	SA	SW846 3050B/6020B
	Nickel	4.17	0.0887	0.355		NONE	SA	SW846 3050B/6020B
	Selenium	1.5	0.319	0.887		NONE	SA	SW846 3050B/6020B
	Silver	0.0942	0.0942	0.471	U	0.47UJ	SA	SW846 3050B/6010D
	Thallium	0.124	0.124	0.355	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.754	0.0117	0.0355		NONE	SA	SW846 3050B/6020B
	Zinc	27.5	0.709	3.55		J	SA	SW846 3050B/6020B
S-72	Aluminum	12,100	40.2	88.3		J	SA	SW846 3050B/6020B
	Antimony	0.323	0.323	1.96	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.96	0.299	0.883		NONE	SA	SW846 3050B/6020B
	Beryllium	0.483	0.0177	0.0883		NONE	SA	SW846 3050B/6020B
	Cadmium	0.149	0.0177	0.177	J	NONE	SA	SW846 3050B/6020B
	Chromium	12.3	0.177	0.53		NONE	SA	SW846 3050B/6020B
	Copper	12.8	0.0583	0.353		NONE	SA	SW846 3050B/6020B
	Iron	13,700	58.3	177		J	SA	SW846 3050B/6020B
	Lead	11	0.0883	0.353		NONE	SA	SW846 3050B/6020B
	Magnesium	4,840	1.77	5.3		NONE	SA	SW846 3050B/6020B
	Nickel	10.7	0.0883	0.353		NONE	SA	SW846 3050B/6020B
	Selenium	1.16	0.318	0.883	N	J	SA	SW846 3050B/6020B
	Silver	0.0978	0.0978	0.489	U	NONE	SA	SW846 3050B/6010D

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-72, cont.	Thallium	0.128	0.124	0.353	J	NONE	SA	SW846 3050B/6020B
	Uranium	0.553	0.0117	0.0353	B	NONE	SA	SW846 3050B/6020B
	Zinc	37.7	0.707	3.53		J	SA	SW846 3050B/6020B
S-74	Aluminum	4,950	4.3	9.45		J	SA	SW846 3050B/6020B
	Aluminum	4,490	4.12	9.06		J	DU	SW846 3050B/6020B
	Antimony	0.293	0.293	1.77	U	NONE	SA	SW846 3050B/6010D
	Antimony	0.301	0.301	1.82	U	NONE	DU	SW846 3050B/6010D
	Arsenic	1.99	0.319	0.945		NONE	SA	SW846 3050B/6020B
	Arsenic	1.35	0.306	0.906		NONE	DU	SW846 3050B/6020B
	Beryllium	0.318	0.0189	0.0945		NONE	SA	SW846 3050B/6020B
	Beryllium	0.273	0.0181	0.0906		NONE	DU	SW846 3050B/6020B
	Cadmium	0.179	0.0189	0.189	J	NONE	SA	SW846 3050B/6020B
	Cadmium	0.164	0.0181	0.181	J	NONE	DU	SW846 3050B/6020B
	Chromium	4.13	0.189	0.567		NONE	SA	SW846 3050B/6020B
	Chromium	3.91	0.181	0.543		NONE	DU	SW846 3050B/6020B
	Copper	9.19	0.0624	0.378		NONE	SA	SW846 3050B/6020B
	Copper	5.52	0.0598	0.362		NONE	DU	SW846 3050B/6020B
	Iron	8,520	6.24	18.9		J	SA	SW846 3050B/6020B
	Iron	7,060	5.98	18.1		J	DU	SW846 3050B/6020B
	Lead	8.01	0.0945	0.378		NONE	SA	SW846 3050B/6020B
	Lead	3.9	0.0906	0.362		NONE	DU	SW846 3050B/6020B
	Magnesium	2,370	1.89	5.67		NONE	SA	SW846 3050B/6020B
	Magnesium	2,420	1.81	5.43		NONE	DU	SW846 3050B/6020B
	Nickel	4.51	0.0945	0.378		NONE	SA	SW846 3050B/6020B
	Nickel	4.12	0.0906	0.362		NONE	DU	SW846 3050B/6020B
	Selenium	0.929	0.34	0.945	JN	J	SA	SW846 3050B/6020B
	Selenium	1.07	0.326	0.906	N	J	DU	SW846 3050B/6020B
	Silver	0.157	0.0887	0.443	J	NONE	SA	SW846 3050B/6010D
	Silver	0.0911	0.0911	0.455	U	NONE	DU	SW846 3050B/6010D
	Thallium	0.132	0.132	0.378	U	NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-74, cont.	Thallium	0.127	0.127	0.362	U	NONE	DU	SW846 3050B/6020B
	Uranium	0.753	0.0125	0.0378	B	NONE	SA	SW846 3050B/6020B
	Uranium	0.87	0.012	0.0362	B	NONE	DU	SW846 3050B/6020B
	Zinc	22.9	0.756	3.78		J	SA	SW846 3050B/6020B
	Zinc	23.8	0.725	3.62		J	DU	SW846 3050B/6020B
S-75	Aluminum	6,560	4.48	9.84		J	SA	SW846 3050B/6020B
	Antimony	0.297	0.297	1.8	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.34	0.333	0.984		NONE	SA	SW846 3050B/6020B
	Beryllium	0.384	0.0197	0.0984		NONE	SA	SW846 3050B/6020B
	Cadmium	0.14	0.0197	0.197	J	NONE	SA	SW846 3050B/6020B
	Chromium	8.94	0.197	0.591		NONE	SA	SW846 3050B/6020B
	Copper	8.66	0.065	0.394		NONE	SA	SW846 3050B/6020B
	Iron	8,930	6.5	19.7		J	SA	SW846 3050B/6020B
	Lead	6.97	0.0984	0.394		NONE	SA	SW846 3050B/6020B
	Magnesium	3,270	1.97	5.91		NONE	SA	SW846 3050B/6020B
	Nickel	8.66	0.0984	0.394		NONE	SA	SW846 3050B/6020B
	Selenium	0.873	0.354	0.984	JN	J	SA	SW846 3050B/6020B
	Silver	0.167	0.0899	0.45	J	NONE	SA	SW846 3050B/6010D
	Thallium	0.138	0.138	0.394	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.572	0.013	0.0394	B	NONE	SA	SW846 3050B/6020B
	Zinc	25.4	0.787	3.94		J	SA	SW846 3050B/6020B
S-85	Aluminum	6,210	4.44	9.77		J	SA	SW846 3050B/6020B
	Antimony	1.5	1.5	9.09	U	NONE	SA	SW846 3050B/6010D
	Arsenic	2.78	0.33	0.977		NONE	SA	SW846 3050B/6020B
	Beryllium	0.329	0.0195	0.0977		NONE	SA	SW846 3050B/6020B
	Cadmium	0.232	0.0195	0.195		NONE	SA	SW846 3050B/6020B
	Chromium	7.89	0.195	0.586		NONE	SA	SW846 3050B/6020B
	Copper	4.92	0.0645	0.391		NONE	SA	SW846 3050B/6020B
	Iron	7,100	6.45	19.5		J	SA	SW846 3050B/6020B
	Lead	6.55	0.0977	0.391		NONE	SA	SW846 3050B/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
	Magnesium	3,620	1.95	5.86		NONE	SA	SW846 3050B/6020B
	Nickel	7.35	0.0977	0.391		NONE	SA	SW846 3050B/6020B
	Selenium	0.841	0.352	0.977	JN	J	SA	SW846 3050B/6020B
S-85, cont.	Silver	0.455	0.455	2.27	U	NONE	SA	SW846 3050B/6010D
	Thallium	0.137	0.137	0.391	U	NONE	SA	SW846 3050B/6020B
	Uranium	5.38	0.0129	0.0391	B	NONE	SA	SW846 3050B/6020B
	Zinc	21	0.781	3.91		J	SA	SW846 3050B/6020B
S-91	Aluminum	4,570	3.98	8.74		J	SA	SW846 3050B/6020B
	Antimony	0.322	0.322	1.95	U	NONE	SA	SW846 3050B/6010D
	Arsenic	4.1	0.295	0.874		NONE	SA	SW846 3050B/6020B
	Beryllium	0.29	0.0175	0.0874		NONE	SA	SW846 3050B/6020B
	Cadmium	0.137	0.0175	0.175	J	NONE	SA	SW846 3050B/6020B
	Chromium	4.31	0.175	0.524		NONE	SA	SW846 3050B/6020B
	Copper	6.3	0.0577	0.35		NONE	SA	SW846 3050B/6020B
	Iron	7,700	5.77	17.5		J	SA	SW846 3050B/6020B
	Lead	5.18	0.0874	0.35		NONE	SA	SW846 3050B/6020B
	Magnesium	2,180	1.75	5.24		NONE	SA	SW846 3050B/6020B
	Nickel	6.67	0.0874	0.35		NONE	SA	SW846 3050B/6020B
	Selenium	0.943	0.315	0.874	N	J	SA	SW846 3050B/6020B
	Silver	0.0982	0.0977	0.488	J	NONE	SA	SW846 3050B/6010D
	Thallium	0.122	0.122	0.35	U	NONE	SA	SW846 3050B/6020B
	Uranium	0.311	0.0115	0.035	B	NONE	SA	SW846 3050B/6020B
	Zinc	21.4	0.699	3.5		J	SA	SW846 3050B/6020B

^a Blank cells indicate that the laboratory did not qualify the data.

Laboratory Data Qualifiers

B = Analyte found in the blank and the sample.

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

N = A spike was outside limits.

U = The analyte was absent or below the method detection limit.

Data Validation Qualifiers

J = The associated value was an estimated quantity.

Appendix A. Terrestrial Surveillance Analytical Results in 2024

None = There was no data validation assigned.

UJ = The analyte was analyzed for but was not detected. The associated value was an estimate and might be inaccurate or imprecise.

Sample Type

DU = duplicate sample

SA = sample

Analytical Method

SW-846 (EPA 1986)

Table A-6. Perchlorate results in soil, 2024

Location	Analyte	Result (mg/kg)	Method Detection Limit (mg/kg)	Practical Quantitation Limit (mg/kg)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-53	Perchlorate	0.626	0.00985	0.0394		J	DU	SW846 6850 Modified
S-53	Perchlorate	0.553	0.00943	0.0377		J	SA	SW846 6850 Modified

^a Blank cells indicate that the laboratory did not qualify the data.

Data Validation Qualifier

J = The associated value was an estimated quantity.

Sample Type

DU = duplicate sample

SA = sample

Analytical Method

SW-846 (EPA 1986)

Table A-7. High explosives results in soil, 2024

Location	Analyte	Result (µg/kg)	Method Detection Limit (µg/kg)	Practical Quantitation Limit (µg/kg)	Laboratory Data Qualifier	Data Validation Qualifier	Sample Type	Analytical Method
S-90	Amino-2,6-dinitrotoluene, 4-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Amino-4,6-dinitrotoluene, 2-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrobenzene, 1,3-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,4-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,6-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	HMX	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Nitro-benzene	150	150	500	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 2-	150	150	500	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 3-	150	150	500	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 4-	150	150	500	U	UJ	SA	SW846 8330B by LC/MS/MS
	Pentaerythritol tetranitrate	250	250	1000	U	NONE	SA	SW846 8330B by LC/MS/MS
	RDX	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Tetryl	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Trinitrobenzene, 1,3,5-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
	Trinitrotoluene, 2,4,6-	150	150	500	U	NONE	SA	SW846 8330B by LC/MS/MS
S-93	Amino-2,6-dinitrotoluene, 4-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Amino-4,6-dinitrotoluene, 2-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrobenzene, 1,3-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,4-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,6-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	HMX	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Nitro-benzene	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 2-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 3-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 4-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Pentaerythritol tetranitrate	253	253	1010	U	NONE	SA	SW846 8330B by LC/MS/MS
	RDX	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Tetryl	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Trinitrobenzene, 1,3,5-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Location	Analyte	Result (µg/kg)	Method Detection Limit (µg/kg)	Practical Quantitation Limit (µg/kg)	Laboratory Data Qualifier	Data Validation Qualifier	Sample Type	Analytical Method
S-94	Trinitrotoluene, 2,4,6-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Amino-2,6-dinitrotoluene, 4-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Amino-4,6-dinitrotoluene, 2-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrobenzene, 1,3-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,4-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Dinitrotoluene, 2,6-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	HMX	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Nitro-benzene	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 2-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 3-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Nitrotoluene, 4-	152	152	505	U	UJ	SA	SW846 8330B by LC/MS/MS
	Pentaerythritol tetranitrate	253	253	1010	U	NONE	SA	SW846 8330B by LC/MS/MS
	RDX	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Tetryl	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Trinitrobenzene, 1,3,5-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS
	Trinitrotoluene, 2,4,6-	152	152	505	U	NONE	SA	SW846 8330B by LC/MS/MS

HMX = high melting explosive

LC/MS/MS = liquid chromatography/mass spectrometry/mass spectrometry

RDX = rapid-detonating explosive

Laboratory Data Qualifier

U = The analyte was absent or below the method detection limit.

Data Validation Qualifier

None = There was no data validation assigned.

Sample Type

SA = sample

Analytical Method

SW-846 (EPA 1986)

Table A-8. Equipment blank results, 2024

Sample Identification	Analyte	Result (mg/L)	Method Detection Limit (mg/L)	Practical Quantitation Limit (mg/L)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-EB-33	Aluminum	0.0193	0.0193	0.05	U	NONE	EB	SW846 3005A/6020B
	Antimony	0.001	0.001	0.003	U	NONE	EB	SW846 3005A/6020B
	Arsenic	0.002	0.002	0.005	U	NONE	EB	SW846 3005A/6020B
	Beryllium	0.0002	0.0002	0.0005	U	NONE	EB	SW846 3005A/6020B
	Cadmium	0.195	0.0003	0.001		NONE	EB	SW846 3005A/6020B
	Chromium	0.003	0.003	0.01	U	NONE	EB	SW846 3005A/6020B
	Copper	0.0003	0.0003	0.002	U	NONE	EB	SW846 3005A/6020B
	Iron	0.033	0.033	0.1	U	NONE	EB	SW846 3005A/6020B
	Lead	0.0005	0.0005	0.002	U	NONE	EB	SW846 3005A/6020B
	Magnesium	0.01	0.01	0.03	U	NONE	EB	SW846 3005A/6020B
	Nickel	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Selenium	0.0015	0.0015	0.005	U	NONE	EB	SW846 3005A/6020B
	Silver	0.0003	0.0003	0.001	U	NONE	EB	SW846 3005A/6020B
	Thallium	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Uranium	0.000067	0.000067	0.0002	U	NONE	EB	SW846 3005A/6020B
	Zinc	0.0033	0.0033	0.02	U	NONE	EB	SW846 3005A/6020B
S-EB-74	Aluminum	0.0193	0.0193	0.05	U	NONE	EB	SW846 3005A/6020B
	Antimony	0.001	0.001	0.003	U	NONE	EB	SW846 3005A/6020B
	Arsenic	0.002	0.002	0.005	U	NONE	EB	SW846 3005A/6020B
	Beryllium	0.0002	0.0002	0.0005	U	NONE	EB	SW846 3005A/6020B
	Cadmium	0.0162	0.0003	0.001		NONE	EB	SW846 3005A/6020B
	Chromium	0.003	0.003	0.01	U	NONE	EB	SW846 3005A/6020B
	Copper	0.0003	0.0003	0.002	U	NONE	EB	SW846 3005A/6020B
	Iron	0.0673	0.033	0.1	J	NONE	EB	SW846 3005A/6020B
	Lead	0.0005	0.0005	0.002	U	NONE	EB	SW846 3005A/6020B
	Magnesium	0.01	0.01	0.03	U	NONE	EB	SW846 3005A/6020B
	Nickel	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Selenium	0.0015	0.0015	0.005	U	NONE	EB	SW846 3005A/6020B
	Silver	0.0003	0.0003	0.001	U	NONE	EB	SW846 3005A/6020B

Appendix A. Terrestrial Surveillance Analytical Results in 2024

Sample Identification	Analyte	Result (mg/L)	Method Detection Limit (mg/L)	Practical Quantitation Limit (mg/L)	Laboratory Data Qualifier ^a	Data Validation Qualifier	Sample Type	Analytical Method
S-EB-74, cont.	Thallium	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Uranium	0.000067	0.000067	0.0002	U	NONE	EB	SW846 3005A/6020B
	Zinc	0.0033	0.0033	0.02	U	NONE	EB	SW846 3005A/6020B
S-EB-DIW	Aluminum	0.0193	0.0193	0.05	U	NONE	EB	SW846 3005A/6020B
	Antimony	0.001	0.001	0.003	U	NONE	EB	SW846 3005A/6020B
	Arsenic	0.002	0.002	0.005	U	NONE	EB	SW846 3005A/6020B
	Beryllium	0.0002	0.0002	0.0005	U	NONE	EB	SW846 3005A/6020B
	Cadmium	0.0003	0.0003	0.001	U	NONE	EB	SW846 3005A/6020B
	Chromium	0.003	0.003	0.01	U	NONE	EB	SW846 3005A/6020B
	Copper	0.0003	0.0003	0.002	U	NONE	EB	SW846 3005A/6020B
	Iron	0.033	0.033	0.1	U	NONE	EB	SW846 3005A/6020B
	Lead	0.0005	0.0005	0.002	U	NONE	EB	SW846 3005A/6020B
	Magnesium	0.01	0.01	0.03	U	NONE	EB	SW846 3005A/6020B
	Nickel	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Selenium	0.0015	0.0015	0.005	U	NONE	EB	SW846 3005A/6020B
	Silver	0.0003	0.0003	0.001	U	NONE	EB	SW846 3005A/6020B
	Thallium	0.0006	0.0006	0.002	U	NONE	EB	SW846 3005A/6020B
	Uranium	0.000067	0.000067	0.0002	U	NONE	EB	SW846 3005A/6020B
	Zinc	0.0033	0.0033	0.02	U	NONE	EB	SW846 3005A/6020B

^a Blank cells indicate that the laboratory did not qualify the data.

Laboratory Data Qualifier

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

U = The analyte was absent or below the method detection limit.

Data Validation Qualifier

None = There was no data validation assigned.

Sample Type

EB = equipment blank

Analytical Method

SW-846 (EPA 1986)

Table A-9. Coefficient of variance results, 2024

Location	Analyte	Result (mg/kg)	Sample Type	Average (mg/kg)	Standard Deviation (mg/kg)	Coefficient of variance ^a (percent)
S-74 (sediment)	Copper	9.19	SA	7.36	2.60	35.28
		5.52	DU			
	Lead	8.01	SA	5.96	2.91	35.36
		3.9	DU			

^aCoefficient of variance reported for duplicate sets that exceeded 35 percent and did not have qualified results.

Sample Type

DU = duplicate sample

SA = sample

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024



Sunset

Table B-1. Ambient air metals analysis, fiscal year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	23-Oct-23	Aluminum	0.0598	0.0272	0.08	J
Sample	23-Oct-23	Aluminum	0.125	0.0272	0.08	
Blank	23-Oct-23	Antimony	<.00132	0.00132	0.008	U
Sample	23-Oct-23	Antimony	<.00132	0.00132	0.008	U
Blank	23-Oct-23	Arsenic	<.002	0.002	0.012	U
Sample	23-Oct-23	Arsenic	<.002	0.002	0.012	U
Blank	23-Oct-23	Barium	0.000478	0.0004	0.002	J
Sample	23-Oct-23	Barium	0.00244	0.0004	0.002	
Blank	23-Oct-23	Beryllium	<.0004	0.0004	0.002	U
Sample	23-Oct-23	Beryllium	<.0004	0.0004	0.002	U
Blank	23-Oct-23	Cadmium	<.0004	0.0004	0.002	U
Sample	23-Oct-23	Cadmium	<.0004	0.0004	0.002	U
Blank	23-Oct-23	Calcium	0.371	0.032	0.1	
Sample	23-Oct-23	Calcium	0.796	0.032	0.1	
Blank	23-Oct-23	Chromium	0.00113	0.0006	0.004	JB
Sample	23-Oct-23	Chromium	0.0015	0.0006	0.004	JB
Blank	23-Oct-23	Cobalt	<.0006	0.0006	0.002	U
Sample	23-Oct-23	Cobalt	<.0006	0.0006	0.002	U
Blank	23-Oct-23	Copper	0.0012	0.0012	0.008	J
Sample	23-Oct-23	Copper	0.0218	0.0012	0.008	
Blank	23-Oct-23	Iron	<.032	0.032	0.1	U
Sample	23-Oct-23	Iron	0.086	0.032	0.1	J
Blank	23-Oct-23	Lead	0.00341	0.00132	0.008	JB
Sample	23-Oct-23	Lead	0.0036	0.00132	0.008	JB
Blank	23-Oct-23	Magnesium	0.096	0.034	0.12	J
Sample	23-Oct-23	Magnesium	0.145	0.034	0.12	
Blank	23-Oct-23	Manganese	<.0008	0.0008	0.004	U
Sample	23-Oct-23	Manganese	0.00237	0.0008	0.004	J
Blank	23-Oct-23	Nickel	0.000715	0.0006	0.002	JB
Sample	23-Oct-23	Nickel	0.00157	0.0006	0.002	JB

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	23-Oct-23	Potassium	0.121	0.0256	0.1	
Sample	23-Oct-23	Potassium	0.184	0.0256	0.1	
Blank	23-Oct-23	Selenium	<.002	0.002	0.012	U
Sample	23-Oct-23	Selenium	0.0027	0.002	0.012	J
Blank	23-Oct-23	Silver	<.0004	0.0004	0.002	U
Sample	23-Oct-23	Silver	<.0004	0.0004	0.002	U
Blank	23-Oct-23	Sodium	5.62	0.028	0.1	
Sample	23-Oct-23	Sodium	6.53	0.028	0.1	
Blank	23-Oct-23	Thallium	<.002	0.002	0.008	U
Sample	23-Oct-23	Thallium	<.002	0.002	0.008	U
Blank	23-Oct-23	Uranium	<.0000264	0.0000264	0.00008	U
Sample	23-Oct-23	Uranium	0.0000444	0.0000264	0.00008	J
Blank	23-Oct-23	Vanadium	<.0004	0.0004	0.002	U
Sample	23-Oct-23	Vanadium	<.0004	0.0004	0.002	U
Blank	23-Oct-23	Zinc	0.00175	0.0016	0.008	JB
Sample	23-Oct-23	Zinc	0.0148	0.0016	0.008	B
Blank	6-Feb-24	Aluminum	0.0738	0.0272	0.08	J
Sample	6-Feb-24	Aluminum	0.0847	0.0272	0.08	
Blank	6-Feb-24	Antimony	<.00132	0.00132	0.008	U
Sample	6-Feb-24	Antimony	<.00132	0.00132	0.008	U
Blank	6-Feb-24	Arsenic	<.002	0.002	0.012	U
Sample	6-Feb-24	Arsenic	<.002	0.002	0.012	U
Blank	6-Feb-24	Barium	0.000928	0.0004	0.002	J
Sample	6-Feb-24	Barium	0.00195	0.0004	0.002	J
Blank	6-Feb-24	Beryllium	<.0004	0.0004	0.002	U
Sample	6-Feb-24	Beryllium	<.0004	0.0004	0.002	U
Blank	6-Feb-24	Cadmium	<.0004	0.0004	0.002	U
Sample	6-Feb-24	Cadmium	<.0004	0.0004	0.002	U
Blank	6-Feb-24	Calcium	0.499	0.032	0.1	
Sample	6-Feb-24	Calcium	0.525	0.032	0.1	

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	6-Feb-24	Chromium	0.000893	0.0006	0.004	J
Sample	6-Feb-24	Chromium	0.00105	0.0006	0.004	J
Blank	6-Feb-24	Cobalt	<.0006	0.0006	0.002	U
Sample	6-Feb-24	Cobalt	<.0006	0.0006	0.002	U
Blank	6-Feb-24	Copper	0.00246	0.0012	0.008	J
Sample	6-Feb-24	Copper	0.00767	0.0012	0.008	J
Blank	6-Feb-24	Iron	<.032	0.032	0.1	U
Sample	6-Feb-24	Iron	0.0427	0.032	0.1	J
Blank	6-Feb-24	Lead	<.00132	0.00132	0.008	U
Sample	6-Feb-24	Lead	<.00132	0.00132	0.008	U
Blank	6-Feb-24	Magnesium	0.113	0.034	0.12	J
Sample	6-Feb-24	Magnesium	0.106	0.034	0.12	J
Blank	6-Feb-24	Manganese	<.0008	0.0008	0.004	U
Sample	6-Feb-24	Manganese	0.000881	0.0008	0.004	J
Blank	6-Feb-24	Nickel	0.000861	0.0006	0.002	JB
Sample	6-Feb-24	Nickel	0.000751	0.0006	0.002	JB
Blank	6-Feb-24	Potassium	0.23	0.0256	0.1	
Sample	6-Feb-24	Potassium	0.182	0.0256	0.1	
Blank	6-Feb-24	Selenium	<.002	0.002	0.012	U
Sample	6-Feb-24	Selenium	<.002	0.002	0.012	U
Blank	6-Feb-24	Silver	0.00125	0.0004	0.002	JB
Sample	6-Feb-24	Silver	0.000494	0.0004	0.002	JB
Blank	6-Feb-24	Sodium	8.16	0.028	0.1	
Sample	6-Feb-24	Sodium	6.49	0.028	0.1	
Blank	6-Feb-24	Thallium	<.002	0.002	0.008	U
Sample	6-Feb-24	Thallium	<.002	0.002	0.008	U
Blank	6-Feb-24	Uranium	0.0000352	0.0000264	0.00008	J
Sample	6-Feb-24	Uranium	0.0000368	0.0000264	0.00008	J
Blank	6-Feb-24	Vanadium	<.0004	0.0004	0.002	U
Sample	6-Feb-24	Vanadium	<.0004	0.0004	0.002	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	6-Feb-24	Zinc	0.00269	0.0016	0.008	J
Sample	6-Feb-24	Zinc	0.00512	0.0016	0.008	J
Blank	6-Jun-24	Aluminum	<.0272	0.0272	0.08	U
Sample	6-Jun-24	Aluminum	0.158	0.0272	0.08	
Blank	6-Jun-24	Antimony	<.00132	0.00132	0.008	U
Sample	6-Jun-24	Antimony	<.00132	0.00132	0.008	U
Blank	6-Jun-24	Arsenic	<.002	0.002	0.012	U
Sample	6-Jun-24	Arsenic	<.002	0.002	0.012	U
Blank	6-Jun-24	Barium	<.0004	0.0004	0.002	U
Sample	6-Jun-24	Barium	0.00374	0.0004	0.002	
Blank	6-Jun-24	Beryllium	<.0004	0.0004	0.002	U
Sample	6-Jun-24	Beryllium	<.0004	0.0004	0.002	U
Blank	6-Jun-24	Cadmium	<.0004	0.0004	0.002	U
Sample	6-Jun-24	Cadmium	<.0004	0.0004	0.002	U
Blank	6-Jun-24	Calcium	0.216	0.032	0.1	
Sample	6-Jun-24	Calcium	0.889	0.032	0.1	
Blank	6-Jun-24	Chromium	<.0006	0.0006	0.004	U
Sample	6-Jun-24	Chromium	0.00144	0.0006	0.004	J
Blank	6-Jun-24	Cobalt	<.0006	0.0006	0.002	U
Sample	6-Jun-24	Cobalt	<.0006	0.0006	0.002	U
Blank	6-Jun-24	Copper	<.0012	0.0012	0.008	U
Sample	6-Jun-24	Copper	0.0129	0.0012	0.008	
Blank	6-Jun-24	Iron	<.032	0.032	0.1	U
Sample	6-Jun-24	Iron	0.145	0.032	0.1	
Blank	6-Jun-24	Lead	<.00132	0.00132	0.008	U
Sample	6-Jun-24	Lead	<.00132	0.00132	0.008	U
Blank	6-Jun-24	Magnesium	0.0464	0.034	0.12	J
Sample	6-Jun-24	Magnesium	0.174	0.034	0.12	
Blank	6-Jun-24	Manganese	<.0008	0.0008	0.004	U
Sample	6-Jun-24	Manganese	0.00373	0.0008	0.004	J

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	6-Jun-24	Nickel	<.0006	0.0006	0.002	U
Sample	6-Jun-24	Nickel	<.0006	0.0006	0.002	U
Blank	6-Jun-24	Potassium	0.0994	0.0256	0.1	J
Sample	6-Jun-24	Potassium	0.218	0.0256	0.1	
Blank	6-Jun-24	Selenium	<.002	0.002	0.012	U
Sample	6-Jun-24	Selenium	<.002	0.002	0.012	U
Blank	6-Jun-24	Silver	<.0004	0.0004	0.002	U
Sample	6-Jun-24	Silver	<.0004	0.0004	0.002	U
Blank	6-Jun-24	Sodium	3.58	0.028	0.1	
Sample	6-Jun-24	Sodium	7.71	0.028	0.1	
Blank	6-Jun-24	Thallium	<.002	0.002	0.008	U
Sample	6-Jun-24	Thallium	<.002	0.002	0.008	U
Blank	6-Jun-24	Uranium	<.0000264	0.0000264	0.00008	U
Sample	6-Jun-24	Uranium	0.0000296	0.0000264	0.00008	J
Blank	6-Jun-24	Vanadium	<.0004	0.0004	0.002	U
Sample	6-Jun-24	Vanadium	<.0004	0.0004	0.002	U
Blank	6-Jun-24	Zinc	0.00179	0.0016	0.008	J
Sample	6-Jun-24	Zinc	0.00486	0.0016	0.008	J
Blank	10-Sep-24	Aluminum	0.225	0.0272	0.08	
Sample	10-Sep-24	Aluminum	0.378	0.0272	0.08	
Blank	10-Sep-24	Antimony	0.00177	0.00132	0.008	J
Sample	10-Sep-24	Antimony	0.0017	0.00132	0.008	J
Blank	10-Sep-24	Arsenic	0.00216	0.002	0.012	JB
Sample	10-Sep-24	Arsenic	<.002	0.002	0.012	U
Blank	10-Sep-24	Barium	0.00425	0.0004	0.002	
Sample	10-Sep-24	Barium	0.00726	0.0004	0.002	
Blank	10-Sep-24	Beryllium	<.0004	0.0004	0.002	U
Sample	10-Sep-24	Beryllium	<.0004	0.0004	0.002	U
Blank	10-Sep-24	Cadmium	<.0004	0.0004	0.002	U
Sample	10-Sep-24	Cadmium	<.0004	0.0004	0.002	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	10-Sep-24	Calcium	1.38	0.032	0.1	
Sample	10-Sep-24	Calcium	2.49	0.032	0.1	
Blank	10-Sep-24	Chromium	0.0029	0.0006	0.004	J
Sample	10-Sep-24	Chromium	0.00339	0.0006	0.004	J
Blank	10-Sep-24	Cobalt	<.0006	0.0006	0.002	U
Sample	10-Sep-24	Cobalt	0.000636	0.0006	0.002	J
Blank	10-Sep-24	Copper	0.00394	0.0012	0.008	J
Sample	10-Sep-24	Copper	0.0298	0.0012	0.008	
Blank	10-Sep-24	Iron	0.0398	0.032	0.1	J
Sample	10-Sep-24	Iron	0.274	0.032	0.1	
Blank	10-Sep-24	Lead	<.00132	0.00132	0.008	U
Sample	10-Sep-24	Lead	<.00132	0.00132	0.008	U
Blank	10-Sep-24	Magnesium	0.341	0.034	0.12	
Sample	10-Sep-24	Magnesium	0.418	0.034	0.12	
Blank	10-Sep-24	Manganese	0.00152	0.0008	0.004	JB
Sample	10-Sep-24	Manganese	0.00867	0.0008	0.004	B
Blank	10-Sep-24	Nickel	0.000872	0.0006	0.002	J
Sample	10-Sep-24	Nickel	0.00177	0.0006	0.002	J
Blank	10-Sep-24	Potassium	0.509	0.0256	0.1	
Sample	10-Sep-24	Potassium	0.592	0.0256	0.1	
Blank	10-Sep-24	Selenium	<.002	0.002	0.012	U
Sample	10-Sep-24	Selenium	0.0058	0.002	0.012	J
Blank	10-Sep-24	Silver	<.0004	0.0004	0.002	U
Sample	10-Sep-24	Silver	<.0004	0.0004	0.002	U
Blank	10-Sep-24	Sodium	20.4	0.028	0.1	
Sample	10-Sep-24	Sodium	19.3	0.028	0.1	
Blank	10-Sep-24	Thallium	<.002	0.002	0.008	U
Sample	10-Sep-24	Thallium	<.002	0.002	0.008	U
Blank	10-Sep-24	Uranium	<.0000264	0.0000264	0.00008	U
Sample	10-Sep-24	Uranium	0.0000328	0.0000264	0.00008	J

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (mg/sa)	MDL (mg/sa)	PQL (mg/sa)	Laboratory Data Qualifiers ^a
Blank	10-Sep-24	Vanadium	<.0004	0.0004	0.002	U
Sample	10-Sep-24	Vanadium	0.000429	0.0004	0.002	J
Blank	10-Sep-24	Zinc	0.00436	0.0016	0.008	J
Sample	10-Sep-24	Zinc	0.0108	0.0016	0.008	

^a Blank cells indicate that the lab did not qualify the data.

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Laboratory Data Qualifier

B = The analyte was detected in the blank.

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

U = The analyte was absent or below the method detection limit.

Table B-2. Ambient air radiological analysis, fiscal year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Blank	23-Oct-23	Actinium-228	-13	30.1	15.5	32.4	U
Sample	23-Oct-23	Actinium-228	28.8	43.1	16.6	34.8	U
Blank	23-Oct-23	Alpha, gross	1.78	5.21	4.26	9.09	U*
Sample	23-Oct-23	Alpha, gross	3.83	5.21	4.12	8.84	U*
Blank	23-Oct-23	Americium-241	12	15.3	12.4	25.7	U
Sample	23-Oct-23	Americium-241	-4.72	16.2	13.9	28.8	U
Blank	23-Oct-23	Beryllium-7	-24.5	33.5	25.4	53.2	U
Sample	23-Oct-23	Beryllium-7	136	58.5	29.2	61.1	
Blank	23-Oct-23	Beta, gross	24.8	4.85	3.3	6.85	*
Sample	23-Oct-23	Beta, gross	64.2	6.35	3.61	7.48	*
Blank	23-Oct-23	Bismuth-212	75.8	65.6	49.6	104	U
Sample	23-Oct-23	Bismuth-212	145	121	42.3	89.9	X
Blank	23-Oct-23	Bismuth-214	1.49	16.7	7.65	15.9	U
Sample	23-Oct-23	Bismuth-214	5.07	22.4	7.16	15	U
Blank	23-Oct-23	Cesium-137	0.214	3.75	3.1	6.55	U
Sample	23-Oct-23	Cesium-137	0.477	4.45	3.66	7.71	U
Blank	23-Oct-23	Cobalt-60	3.25	4.1	3.46	7.46	U
Sample	23-Oct-23	Cobalt-60	-2.02	4.73	3.65	7.91	U
Blank	23-Oct-23	Lead-212	5.87	15.6	4.93	10.2	U
Sample	23-Oct-23	Lead-212	-3.85	11.6	6.55	13.5	U
Blank	23-Oct-23	Lead-214	-11.2	15.4	7.29	15.1	U
Sample	23-Oct-23	Lead-214	1.38	14.8	7.91	16.4	U
Blank	23-Oct-23	Neptunium-237	-2.74	6.57	5.46	11.4	U
Sample	23-Oct-23	Neptunium-237	0.329	6.94	6.05	12.6	U
Blank	23-Oct-23	Potassium-40	21.5	135	32.9	71.3	U
Sample	23-Oct-23	Potassium-40	-36.8	94.4	50.8	108	U
Blank	23-Oct-23	Radium-223	35.3	65.4	56	116	U
Sample	23-Oct-23	Radium-223	-3.21	69.4	60.2	125	U
Blank	23-Oct-23	Radium-224	51.7	69.4	53.5	111	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	23-Oct-23	Radium-224	-129	123	56.9	118	U
Blank	23-Oct-23	Radium-226	30.8	151	48.8	101	U
Sample	23-Oct-23	Radium-226	269	210	51.4	106	X
Blank	23-Oct-23	Radium-228	-13	30.1	15.5	32.4	U
Sample	23-Oct-23	Radium-228	28.8	43.1	16.6	34.8	U
Blank	23-Oct-23	Sodium-22	-0.458	3.77	3.13	6.78	U
Sample	23-Oct-23	Sodium-22	0.8	4.11	3.46	7.5	U
Blank	23-Oct-23	Thorium-227	-13.7	25	20.6	42.8	U
Sample	23-Oct-23	Thorium-227	2.01	28.6	22.9	47.4	U
Blank	23-Oct-23	Thorium-231	1.05	89.2	31.4	64.9	U
Sample	23-Oct-23	Thorium-231	-28.3	82.2	35.4	73	U
Blank	23-Oct-23	Thorium-234	-28.2	214	123	252	U
Sample	23-Oct-23	Thorium-234	-89.8	301	143	294	U
Blank	23-Oct-23	Uranium-235	-16.8	37.4	16.9	34.8	U
Sample	23-Oct-23	Uranium-235	44.4	54.7	15.2	31.5	X
Blank	23-Oct-23	Uranium-238	-28.2	214	123	252	U
Sample	23-Oct-23	Uranium-238	-89.8	301	143	294	U
Blank	6-Feb-24	Actinium-228	16.7	51.5	13.8	29.1	U
Sample	6-Feb-24	Actinium-228	-42.9	38.6	15.9	33.5	U
Blank	6-Feb-24	Alpha, gross	-1.66	4.1	3.55	7.82	U
Sample	6-Feb-24	Alpha, gross	0.445	4.64	3.8	8.36	U
Blank	6-Feb-24	Americium-241	17.2	26.6	20.6	42.3	U
Sample	6-Feb-24	Americium-241	3.81	22.9	19.9	40.9	U
Blank	6-Feb-24	Beryllium-7	7.9	42.2	35.4	73.4	U
Sample	6-Feb-24	Beryllium-7	261	76	33.7	70.3	
Blank	6-Feb-24	Beta, gross	26.3	5.67	4.02	8.3	
Sample	6-Feb-24	Beta, gross	49.2	6.2	3.77	7.8	
Blank	6-Feb-24	Bismuth-212	98.6	77.9	59	123	U
Sample	6-Feb-24	Bismuth-212	-24.8	62	47.9	101	U
Blank	6-Feb-24	Bismuth-214	7.82	22.6	7.72	16.1	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	6-Feb-24	Bismuth-214	22.2	23.9	6.89	14.5	X
Blank	6-Feb-24	Cesium-137	1.04	11.9	4.14	8.65	U
Sample	6-Feb-24	Cesium-137	-3.2	10.9	5.67	11.7	U
Blank	6-Feb-24	Cobalt-60	2.21	4.82	4.04	8.65	U
Sample	6-Feb-24	Cobalt-60	2.39	4.34	3.76	8.12	U
Blank	6-Feb-24	Lead-212	13.3	21	7.75	15.8	U
Sample	6-Feb-24	Lead-212	0.113	15.5	7.23	14.8	U
Blank	6-Feb-24	Lead-214	-17	21.2	9.27	19.1	U
Sample	6-Feb-24	Lead-214	9.5	22.4	8.82	18.2	U
Blank	6-Feb-24	Neptunium-237	-1.61	9.36	7.14	14.8	U
Sample	6-Feb-24	Neptunium-237	-3.59	8.24	6.63	13.7	U
Blank	6-Feb-24	Potassium-40	30.2	170	35.5	76.6	U
Sample	6-Feb-24	Potassium-40	97.9	128	29.8	65.6	
Blank	6-Feb-24	Radium-223	-0.727	85.1	72.9	150	U
Sample	6-Feb-24	Radium-223	7.3	81.2	68.2	141	U
Blank	6-Feb-24	Radium-224	-88.7	131	66.8	137	U
Sample	6-Feb-24	Radium-224	-157	162	64.6	133	U
Blank	6-Feb-24	Radium-226	-171	211	123	249	U
Sample	6-Feb-24	Radium-226	-236	209	98.3	200	U
Blank	6-Feb-24	Radium-228	16.7	51.5	13.8	29.1	U
Sample	6-Feb-24	Radium-228	-42.9	38.6	15.9	33.5	U
Blank	6-Feb-24	Sodium-22	0.51	4.86	4.05	8.64	U
Sample	6-Feb-24	Sodium-22	-0.306	4.23	3.57	7.72	U
Blank	6-Feb-24	Thorium-227	-12	32.8	27.8	57.2	U
Sample	6-Feb-24	Thorium-227	5.95	32.5	27.5	56.7	U
Blank	6-Feb-24	Thorium-231	123	147	45.6	93.4	X
Sample	6-Feb-24	Thorium-231	39.5	61.3	51.3	105	U
Blank	6-Feb-24	Thorium-234	68.2	498	248	504	U
Sample	6-Feb-24	Thorium-234	-96.2	422	210	428	U
Blank	6-Feb-24	Uranium-235	26.8	66.6	25.5	52.1	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	6-Feb-24	Uranium-235	18.4	58	23.8	48.7	U
Blank	6-Feb-24	Uranium-238	68.2	498	248	504	U
Sample	6-Feb-24	Uranium-238	-96.2	422	210	428	U
Blank	6-Jun-24	Actinium-228	-32.9	41	16.1	33.7	U
Sample	6-Jun-24	Actinium-228	-1.5	27.5	13.7	28.8	U
Blank	6-Jun-24	Alpha, gross	2.09	3.21	2.41	5.51	U
Sample	6-Jun-24	Alpha, gross	10.1	5.08	3.38	7.47	
Blank	6-Jun-24	Americium-241	-18.1	34.4	26.6	54.6	U
Sample	6-Jun-24	Americium-241	3.81	4.1	3.18	6.56	U
Blank	6-Jun-24	Beryllium-7	9.48	41	34.5	71.6	U
Sample	6-Jun-24	Beryllium-7	253	67.8	26.4	55	
Blank	6-Jun-24	Beta, gross	16.8	4.1	2.79	5.84	
Sample	6-Jun-24	Beta, gross	20.7	4.01	2.5	5.26	
Blank	6-Jun-24	Bismuth-212	1.13	102	53.4	112	U
Sample	6-Jun-24	Bismuth-212	15.6	50.7	41.9	88.1	U
Blank	6-Jun-24	Bismuth-214	8.53	9.86	7.85	16.3	U
Sample	6-Jun-24	Bismuth-214	1.3	15.2	7.82	16.2	U
Blank	6-Jun-24	Cesium-137	-10.5	13.4	3.96	8.27	U
Sample	6-Jun-24	Cesium-137	-0.0612	3.82	3.15	6.61	U
Blank	6-Jun-24	Cobalt-60	-6.3	9.34	3.64	7.83	U
Sample	6-Jun-24	Cobalt-60	0.173	4.01	3.35	7.17	U
Blank	6-Jun-24	Lead-212	1.14	17.4	6.3	12.9	U
Sample	6-Jun-24	Lead-212	1.47	12.3	4.39	9.06	U
Blank	6-Jun-24	Lead-214	3.95	17.1	8.54	17.6	U
Sample	6-Jun-24	Lead-214	3.98	15.9	6.82	14.1	U
Blank	6-Jun-24	Neptunium-237	-2.37	8.39	6.97	14.4	U
Sample	6-Jun-24	Neptunium-237	-0.416	6.49	5.12	10.6	U
Blank	6-Jun-24	Potassium-40	0.891	108	33.1	71.7	U
Sample	6-Jun-24	Potassium-40	13.9	105	29.3	63.3	U
Blank	6-Jun-24	Radium-223	-4.8	78.6	66.4	137	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	6-Jun-24	Radium-223	103	102	54.3	112	U
Blank	6-Jun-24	Radium-224	87.7	96.8	68.9	142	U
Sample	6-Jun-24	Radium-224	36.4	63.3	46.9	96.8	U
Blank	6-Jun-24	Radium-226	107	1620	64.5	133	U
Sample	6-Jun-24	Radium-226	-13	133	65	133	U
Blank	6-Jun-24	Radium-228	-32.9	41	16.1	33.7	U
Sample	6-Jun-24	Radium-228	-1.5	27.5	13.7	28.8	U
Blank	6-Jun-24	Sodium-22	2.17	4.76	4.1	8.73	U
Sample	6-Jun-24	Sodium-22	-0.562	3.9	2.79	6.04	U
Blank	6-Jun-24	Thorium-227	-20.7	33.7	26.9	55.4	U
Sample	6-Jun-24	Thorium-227	-1.29	23.7	19	39.3	U
Blank	6-Jun-24	Thorium-231	-91.3	111	53.9	110	U
Sample	6-Jun-24	Thorium-231	17.1	53.5	17.6	36.3	U
Blank	6-Jun-24	Thorium-234	-165	526	248	505	U
Sample	6-Jun-24	Thorium-234	0.000408	93.1	29.1	60.3	U
Blank	6-Jun-24	Uranium-235	8.79	42.5	22.6	46.2	U
Sample	6-Jun-24	Uranium-235	12.8	37.1	14.2	29.2	U
Blank	6-Jun-24	Uranium-238	-165	526	248	505	U
Sample	6-Jun-24	Uranium-238	0.000408	93.1	29.1	60.3	U
Blank	10-Sep-24	Actinium-228	10.6	36.8	9.77	21.1	U
Sample	10-Sep-24	Actinium-228	37.3	36.2	16.4	37.4	U
Blank	10-Sep-24	Alpha, gross	-5.06	4.04	3.75	8.07	U
Sample	10-Sep-24	Alpha, gross	5.19	5.49	4.28	9.13	U
Blank	10-Sep-24	Americium-241	15.3	16	12	24.7	U
Sample	10-Sep-24	Americium-241	1.33	11.7	9.1	18.9	U
Blank	10-Sep-24	Beryllium-7	14.6	32.2	27.3	57.2	U
Sample	10-Sep-24	Beryllium-7	265	81.2	26.4	55.9	
Blank	10-Sep-24	Beta, gross	26.5	5.53	3.9	8.05	
Sample	10-Sep-24	Beta, gross	78.4	6.56	3.32	6.88	
Blank	10-Sep-24	Bismuth-212	3.34	52.5	43.2	91.3	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	10-Sep-24	Bismuth-212	29.2	53.1	43.8	93.3	U
Blank	10-Sep-24	Bismuth-214	20	17.8	6.79	14.2	
Sample	10-Sep-24	Bismuth-214	20.4	19.6	6.66	14	
Blank	10-Sep-24	Cesium-137	-0.603	3.68	2.99	6.33	U
Sample	10-Sep-24	Cesium-137	2	4.22	3.5	7.41	U
Blank	10-Sep-24	Cobalt-60	1.95	4.15	3.19	6.93	U
Sample	10-Sep-24	Cobalt-60	4.12	4.46	3.75	8.13	U
Blank	10-Sep-24	Lead-212	0.0381	12.3	4.42	9.17	U
Sample	10-Sep-24	Lead-212	1.8	13.5	5.07	10.5	U
Blank	10-Sep-24	Lead-214	9.06	17.6	6.26	13.1	U
Sample	10-Sep-24	Lead-214	15.7	19	6.49	13.6	
Blank	10-Sep-24	Neptunium-237	2.17	6.41	5.58	11.6	U
Sample	10-Sep-24	Neptunium-237	0.0975	6.59	5.67	11.9	U
Blank	10-Sep-24	Potassium-40	93.3	105	31.1	67.7	
Sample	10-Sep-24	Potassium-40	-16.9	78.4	50.9	108	U
Blank	10-Sep-24	Radium-223	20.4	61.4	53.4	111	U
Sample	10-Sep-24	Radium-223	19	71.5	61.6	128	U
Blank	10-Sep-24	Radium-224	41.2	155	47.4	98.3	U
Sample	10-Sep-24	Radium-224	6.21	70.1	55.3	115	U
Blank	10-Sep-24	Radium-226	47.4	167	70.5	144	U
Sample	10-Sep-24	Radium-226	-149	168	85.2	174	U
Blank	10-Sep-24	Radium-228	10.6	36.8	9.77	21.1	U
Sample	10-Sep-24	Radium-228	37.3	36.2	16.4	37.4	U
Blank	10-Sep-24	Sodium-22	2.35	3.5	3.01	6.55	U
Sample	10-Sep-24	Sodium-22	1.8	4.08	3.52	7.65	U
Blank	10-Sep-24	Thorium-227	-2.41	26.2	20.6	42.8	U
Sample	10-Sep-24	Thorium-227	-5.21	28.1	21.6	45.1	U
Blank	10-Sep-24	Thorium-231	24.7	86.5	29.9	61.8	U
Sample	10-Sep-24	Thorium-231	37.6	62.2	30.7	63.5	U
Blank	10-Sep-24	Thorium-234	231	316	120	247	U

Appendix B. Ambient Air Surveillance Results in Fiscal Year 2024

Sample Type	Sample Date	Analyte	Result (pCi/sa)	Error (pCi/sa)	Lc (pCi/sa)	MDA (pCi/sa)	Laboratory Data Qualifiers ^a
Sample	10-Sep-24	Thorium-234	1.04	228	124	254	U
Blank	10-Sep-24	Uranium-235	6.5	37	13.9	28.8	U
Sample	10-Sep-24	Uranium-235	16.2	36.5	18.6	38.4	U
Blank	10-Sep-24	Uranium-238	231	316	120	247	U
Sample	10-Sep-24	Uranium-238	1.04	228	124	254	U

Lc = critical level

MDA = minimal detectable activity or minimum measured activity in a sample required to ensure a 95 percent probability that the measured activity is accurately quantified above the critical level

Laboratory Data Qualifier

U = The analyte was absent or below the method detection limit.

X = The data was rejected due to the peak not meeting identification criteria.

Appendix C. Stormwater Sampling Requirements and Results in 2024



Summer rain runoff

Table C-1. MSGP stormwater sampling results, calendar year 2024

Sampling Point	Sample Date	Analyte	Result (mg/L)	MDL (mg/L)	PQL (mg/L)	Analytical Method
SWSP-49	23-Jul-2024	Ammonia	0.129	0.017	0.05	EPA 350.1
		Arsenic	0.00596	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	192	8.95	20	EPA 410.4
		Cyanide, total	0.00798	0.00167	0.005	EPA 335.4
		Lead	0.000807	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-05	25-Jul-2024	Chemical Oxygen Demand	62.2	8.95	20	EPA 410.4
		Solids, total suspended	88	11.4	50	SM 2540D
SWSP-41B-1	25-Jul-2024	Chemical Oxygen Demand	69.1	8.95	20	EPA 410.4
		Solids, total suspended	21	5.7	25	SM 2540D
SWSP-50	25-Jul-2024	Chemical Oxygen Demand	83.1	8.95	20	EPA 410.4
		Solids, total suspended	86	11.4	50	SM 2540D
SWSP-40	29-Jul-2024	Ammonia	<.017	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	55.2	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	<.0005	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-40	12-Aug-2024	Ammonia	0.097	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	22.6	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.000548	0.0005	0.002	EPA 200.8

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Sample Date	Analyte	Result (mg/L)	MDL (mg/L)	PQL (mg/L)	Analytical Method
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
SWSP-40	12-Aug-2024	Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-49	12-Aug-2024	Ammonia	0.977	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	76.1	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.000745	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-05	18-Sep-2024	Chemical Oxygen Demand	92.7	8.95	20	EPA 410.4
		Solids, total suspended	142	11.4	50	SM 2540D
SWSP-40	19-Sep-2024	Ammonia	<.017	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	125	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.00101	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-49	25-Sep-2024	Ammonia	0.048	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	132	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	<.0005	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Sample Date	Analyte	Result (mg/L)	MDL (mg/L)	PQL (mg/L)	Analytical Method
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-42	21-Oct-2024	Chemical Oxygen Demand	84.6	8.95	20	EPA 410.4
		Solids, total suspended	363	5.18	22.7	SM 2540D
SWSP-50	21-Oct-2024	Chemical Oxygen Demand	27.5	8.95	20	EPA 410.4
SWSP-50	21-Oct-2024	Solids, total suspended	21.2	2.19	9.62	SM 2540D
SWSP-52	21-Oct-2024	Ammonia	0.022	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	0.00248	0.0003	0.001	EPA 200.8
		Cadmium	<.003	0.003	0.01	EPA 200.8
		Chemical Oxygen Demand	20.4	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.0566	0.0005	0.002	EPA 200.8
		Lead	0.0595	0.005	0.02	EPA 200.8
		Mercury	0.000071	0.000067	0.0002	EPA 245.1
		Selenium	0.00706	0.0015	0.005	EPA 200.8
		Selenium	<.015	0.015	0.05	EPA 200.8
		Silver	<.003	0.003	0.01	EPA 200.8
		Silver	0.000563	0.0003	0.001	EPA 200.8
SWSP-49	23-Oct-2024	Ammonia	0.254	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8
		Chemical Oxygen Demand	26.8	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.000651	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8
		Silver	<.0003	0.0003	0.001	EPA 200.8
SWSP-49	23-Jul-2024	Ammonia	0.129	0.017	0.05	EPA 350.1
SWSP-49	23-Oct-2024	Ammonia	0.254	0.017	0.05	EPA 350.1
		Arsenic	<.002	0.002	0.005	EPA 200.8
		Cadmium	<.0003	0.0003	0.001	EPA 200.8

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Sample Date	Analyte	Result (mg/L)	MDL (mg/L)	PQL (mg/L)	Analytical Method
		Chemical Oxygen Demand	26.8	8.95	20	EPA 410.4
		Cyanide, total	<.00167	0.00167	0.005	EPA 335.4
		Lead	0.000651	0.0005	0.002	EPA 200.8
		Mercury	<.000067	0.000067	0.0002	EPA 245.1
		Selenium	<.0015	0.0015	0.005	EPA 200.8

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Analytical Method

EPA 200.8 (EPA 1994)

EPA 245.1 (EPA 1994)

EPA 335.4 (EPA 1993)

EPA 350.1 (EPA 1993)

EPA 410.4 (EPA 1993)

SM 2540 D (Standard Methods Committee of the American Public Health Association, American Water Works Association, and Water Environment Federation 2018)

Table C-2. Polyfluoroalkyl substances screening results for NMED, calendar year 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
SWSP-49	AQUEOUS	23-Jul-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<164	164	476	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.31	1.31	3.73	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<667	667	1,860	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NETFOSAA)	<1.31	1.31	3.97	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.31	1.31	3.97	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<1.31	1.31	3.97	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	<3.27	3.27	8.83	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	<19.8	19.8	49.6	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.654	0.654	1.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	3.72	0.773	1.98	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<.654	0.654	1.98	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.654	0.654	1.88	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	3.29	3.27	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.654	0.654	1.8	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	<3.97	3.97	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.694	0.694	1.9	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	5.37	0.654	1.98	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<3.27	3.27	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	6.87	0.793	1.98	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	5.44	3.97	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.654	0.654	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	<16.4	16.4	49.6	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<3.97	3.97	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTrDA)	<3.27	3.27	9.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	1.85	0.654	1.98	ng/L	EPA 537.1 Mod, PFAS
SWSP-40	AQUEOUS	29-Jul-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<154	154	447	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<154	154	437	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<626	626	1,750	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NETFOSAA)	<1.23	1.23	3.72	ng/L	EPA 537.1 Mod, PFAS

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
SWSP-40	AQUEOUS	29-Jul-24	N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.23	1.23	3.72	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<1.23	1.23	3.72	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	9.69	0.614	1.66	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	<3.72	3.72	9.31	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.614	0.614	1.81	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	1.28	0.726	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<.614	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.614	0.614	1.77	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	1.48	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.614	0.614	1.69	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	12.1	3.72	9.31	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.652	0.652	1.79	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	1.45	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<.614	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	4.12	0.745	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	3.3	0.745	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.614	0.614	1.75	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	<3.07	3.07	9.31	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<.745	0.745	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTrDA)	<.614	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	<.614	0.614	1.86	ng/L	EPA 537.1 Mod, PFAS
SWSP-40	AQUEOUS	12-Aug-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<6.36	6.36	18.5	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<6.29	6.29	17.9	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<25.6	25.6	71.5	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	<1.26	1.26	3.81	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.27	1.27	3.85	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<1.26	1.26	3.81	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	1.52	0.629	1.7	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	4.77	0.762	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.636	0.636	1.87	ng/L	EPA 537.1 Mod, PFAS
SWSP-40	AQUEOUS	12-Aug-24	Perfluorodecanoic acid (PFDA)	<.743	0.743	1.91	ng/L	EPA 537.1 Mod, PFAS

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
			Perfluorododecanoic acid (PFDOA)	<.636	0.636	1.93	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.636	0.636	1.83	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	0.781	0.629	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.629	0.629	1.73	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	1.51	0.771	1.93	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.667	0.667	1.83	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	<.629	0.629	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<.629	0.629	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	1.19	0.771	1.93	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	0.767	0.762	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.636	0.636	1.81	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	<.629	0.629	1.91	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<.771	0.771	1.93	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTrDA)	<.636	0.636	1.93	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	<.636	0.636	1.93	ng/L	EPA 537.1 Mod, PFAS
SWSP-49	AQUEOUS	12-Aug-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<6.12	6.12	17.8	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<30.6	30.6	87.1	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<125	125	347	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	<1.22	1.22	3.71	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.22	1.22	3.71	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<1.22	1.22	3.71	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	<.612	0.612	1.65	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	17.8	3.71	9.27	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.611	0.611	1.8	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	1.86	0.723	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<.611	0.611	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.612	0.612	1.76	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	0.997	0.611	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.611	0.611	1.69	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	1.5	0.741	1.85	ng/L	EPA 537.1 Mod, PFAS
SWSP-49	AQUEOUS	12-Aug-24	Perfluorononane sulfonic acid (PFNS)	<.649	0.649	1.78	ng/L	EPA 537.1 Mod, PFAS

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
			Perfluorononanoic acid (PFNA)	1.77	0.611	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<.612	0.612	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	2.44	0.741	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	1.18	0.741	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.611	0.611	1.74	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	<.611	0.611	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<3.71	3.71	9.27	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTrDA)	<3.06	3.06	9.26	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	2.04	0.611	1.85	ng/L	EPA 537.1 Mod, PFAS
SWSP-40	AQUEOUS	19-Sep-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.23	1.23	3.58	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.23	1.23	3.51	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.02	5.02	14	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.27	1.23	3.73	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.23	1.23	3.73	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<6.16	6.16	18.7	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	10.7	0.616	1.66	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	<3.73	3.73	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.616	0.616	1.81	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	1.73	0.728	1.87	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<.616	0.616	1.87	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.616	0.616	1.77	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	<3.08	3.08	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.616	0.616	1.7	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	11	3.73	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.653	0.653	1.79	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	<3.08	3.08	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<3.08	3.08	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	6.04	0.747	1.87	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	5.92	3.73	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.616	0.616	1.75	ng/L	EPA 537.1 Mod, PFAS
SWSP-40	AQUEOUS	19-Sep-24	Perfluoropentanoic acid (PFPeA)	<3.08	3.08	9.33	ng/L	EPA 537.1 Mod, PFAS

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
			Perfluorotetradecanoic acid (PFTeDA)	<3.73	3.73	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTTrDA)	<3.08	3.08	9.33	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	<.616	0.616	1.87	ng/L	EPA 537.1 Mod, PFAS
SWSP-49	AQUEOUS	25-Sep-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.27	1.27	3.69	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.33	1.33	3.79	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.43	5.43	15.1	ng/L	EPA 537.1 Mod, PFAS
			N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	<1.27	1.27	3.84	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.27	1.27	3.84	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<6.34	6.34	19.2	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	<.666	0.666	1.8	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	<19.2	19.2	48.1	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.634	0.634	1.86	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	2.68	0.75	1.92	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<3.33	3.33	10.1	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.634	0.634	1.83	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	5.49	3.33	10.1	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.666	0.666	1.84	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	12.2	3.84	9.61	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.673	0.673	1.85	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	5.63	0.666	2.02	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<3.17	3.17	9.61	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	4.18	0.807	2.02	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	9.25	4.04	10.1	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.634	0.634	1.81	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	35.3	3.33	10.1	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<3.84	3.84	9.61	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTTrDA)	<3.17	3.17	9.61	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	1.22	0.666	2.02	ng/L	EPA 537.1 Mod, PFAS
SWSP-49	AQUEOUS	23-Oct-24	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.36	1.36	3.97	ng/L	EPA 537.1 Mod, PFAS
			1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.36	1.36	3.88	ng/L	EPA 537.1 Mod, PFAS
SWSP-49	AQUEOUS	23-Oct-24	1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.56	5.56	15.5	ng/L	EPA 537.1 Mod, PFAS

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Matrix	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
			N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	<1.36	1.36	4.13	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamide (NMeFOSA)	<1.36	1.36	4.13	ng/L	EPA 537.1 Mod, PFAS
			N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	<1.36	1.36	4.13	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutane sulfonic acid (PFBS)	<.682	0.682	1.84	ng/L	EPA 537.1 Mod, PFAS
			Perfluorobutanoic acid (PFBA)	5.35	0.826	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecane sulfonic acid (PFDS)	<.682	0.682	2	ng/L	EPA 537.1 Mod, PFAS
			Perfluorodecanoic acid (PFDA)	<.805	0.805	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorododecanoic acid (PFDOA)	<.682	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptane sulfonic acid (PFHpS)	<.682	0.682	1.96	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroheptanoic acid (PFHpA)	1.07	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexane sulfonic acid (PFHxS)	<.682	0.682	1.88	ng/L	EPA 537.1 Mod, PFAS
			Perfluorohexanoic acid (PFHxA)	4.22	0.826	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononane sulfonic acid (PFNS)	<.723	0.723	1.98	ng/L	EPA 537.1 Mod, PFAS
			Perfluorononanoic acid (PFNA)	0.964	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonamide (PFOSA)	<.682	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctane sulfonic acid (PFOS)	0.945	0.826	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorooctanoic acid (PFOA)	1.54	0.826	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentane sulfonic acid (PFPeS)	<.682	0.682	1.94	ng/L	EPA 537.1 Mod, PFAS
			Perfluoropentanoic acid (PFPeA)	2	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotetradecanoic acid (PFTeDA)	<.826	0.826	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluorotridecanoic acid (PFTrDA)	<.682	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS
			Perfluoroundecanoic acid (PFUnDA)	<.682	0.682	2.07	ng/L	EPA 537.1 Mod, PFAS

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Analytical Method

EPA 537.1 (EPA 2018)

Table C-3. MS4 Permit sampling results, calendar year 2024

Sampling Point	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
SWSP-35	17-May-24	Alpha, gross	0.292	0.375	0.825	pCi/L	EPA 900.0
		Beta, gross	17.5	0.5	1.04	pCi/L	EPA 900.0
		Biochemical Oxygen Demand	29	1	2	mg/L	SM5210B
		Chemical Oxygen Demand	94.7	8.95	20	mg/L	EPA 410.4
		E. COLI	2,419.6	1	1	MPN/100	SM9223B
		Nitrate plus nitrite as N	1.02	0.017	0.05	mg/L	EPA 353.2
		Nitrogen, Kjeldahl	2.25	0.033	0.1	mg/L	EPA 351.2
		Oil and Grease	<1.46	1.46	5.21	mg/L	EPA 1664B
		Phosphorus, Total as P	0.258	0.02	0.05	mg/L	EPA 365.4
		Phosphorus, Total as P	0.275	0.02	0.05	mg/L	EPA 365.4
		Solids, total dissolved	58	2.38	10	mg/L	SM 2540C
		Solids, total suspended	26	5.7	25	mg/L	SM 2540D
		Total PCB Congeners	2,340		113	pg/L	EPA Method 1668C
SWSP-05	10-Jun-24	Alpha, gross	37.6	1.63	3.61	pCi/L	EPA 900.0
		Beta, gross	68.2	2.42	4.97	pCi/L	EPA 900.0
		Biochem Oxygen Demand	24	1	2	mg/L	SM5210B
		Chemical Oxygen Demand	118	8.95	20	mg/L	EPA 410.4
		E. COLI	7,701	1	10	MPN/100	SM9223B
		Nitrate plus nitrite as N	0.912	0.017	0.05	mg/L	EPA 353.2
		Nitrogen, Kjeldahl	3.47	0.033	0.1	mg/L	EPA 351.2
		Oil and Grease	1.51	1.51	5.38	mg/L	EPA 1664B
		Phosphorus, Total as P	0.244	0.08	0.2	mg/L	EPA 365.4
		Phosphorus, Total as P	0.476	0.08	0.2	mg/L	EPA 365.4
		Solids, total dissolved	134	2.38	10	mg/L	SM 2540C
		Solids, total suspended	270	57	250	mg/L	SM 2540D
		Total PCB Congeners	19,900		110	pg/L	EPA Method 1668C
SWSP-02	21-Oct-24	Alpha, gross	1.76	0.357	0.797	pCi/L	EPA 900.0
		Beta, gross	12.3	0.67	1.38	pCi/L	EPA 900.0
		Biochem Oxygen Demand	49	1	12	mg/L	SM5210B
		Chemical Oxygen Demand	77.5	8.95	20	mg/L	EPA 410.4

Appendix C. Stormwater Sampling Requirements and Results in 2024

Sampling Point	Sample Date	Analyte	Result	MDL	PQL	Units	Analytical Method
SWSP-02	21-Oct-24	E. COLI	17,329	1	10	MPN/100	SM9223B
		Nitrate plus nitrite as N	1.7	0.085	0.25	mg/L	EPA 353.2
		Nitrogen, Kjeldahl	2.65	0.165	0.5	mg/L	EPA 351.2
		Oil and Grease	<1.46	1.46	5.21	mg/L	EPA 1664B
		Phosphorus, Total as P	0.312	0.08	0.2	mg/L	EPA 365.4
		Phosphorus, Total as P	0.2	0.08	0.2	mg/L	EPA 365.4
		Solids, total dissolved	109	2.38	10	mg/L	SM 2540C
		Solids, total suspended	61.1	3.17	13.9	mg/L	SM 2540D
		Total PCB Congeners	11,900		102	pg/L	EPA Method 1668C
SWSP-36	21-Oct-24	Alpha, gross	1.51	0.308	0.921	pCi/L	EPA 900.0
		Beta, gross	11	0.464	0.978	pCi/L	EPA 900.0
		Biochem Oxygen Demand	22	1	6	mg/L	SM5210B
		Chemical Oxygen Demand	139	8.95	20	mg/L	EPA 410.4
		E. COLI	2,419.6	1	1	MPN/100	SM9223B
		Nitrate plus nitrite as N	3.5	0.085	0.25	mg/L	EPA 353.2
		Nitrogen, Kjeldahl	5.31	0.165	0.5	mg/L	EPA 351.2
		Oil and Grease	<1.23	1.23	4.39	mg/L	EPA 1664B
		Phosphorus, Total as P	0.36	0.08	0.2	mg/L	EPA 365.4
		Phosphorus, Total as P	0.272	0.08	0.2	mg/L	EPA 365.4
		Solids, total dissolved	139	2.38	10	mg/L	SM 2540C
		Solids, total suspended	14	2.28	10	mg/L	SM 2540D
		Total PCB Congeners	1,270		105	pg/L	EPA Method 1668C

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

MPN = most probable number

N = nitrogen

P = phosphorus

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Analytical Method

EPA 351.2 (EPA 1993)

EPA 353.2 (EPA 1993)

EPA 365.4 (EPA 1974)

Appendix C. Stormwater Sampling Requirements and Results in 2024

EPA 410.4 (EPA 1993)

EPA 900.0 (EPA 1980)

EPA 1664.B (EPA 2010)

EPA 1668 C (EPA 2010)

SM 2540 C (Standard Methods Committee of the American Public Health Association, American Water Works Association, and Water Environment Federation 2018)

SM 2540 D (Standard Methods Committee of the American Public Health Association, American Water Works Association, and Water Environment Federation 2018)

SM 5210 B (Standard Methods Committee of the American Public Health Association 2018)

SM 9223 B (Standard Methods Committee of the American Public Health Association, Enzyme Substrate Coliform Test: 9223B Enzyme Substrate Test 2018)

Appendix D. Sanitary Outfalls Monitoring Results in 2024



Greater roadrunner (*Geococcyx californianus*)

Table D-1. Inorganic results for permitted sanitary outfalls, second quarter of calendar year 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	9-Apr-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	9-Apr-2024	Ammonia	0.024	0.017	J	EPA 350.1
CINT	2238A	9-Apr-2024	Arsenic	0.00354	0.002	J	EPA 200.8
CINT	2238A	9-Apr-2024	Boron	0.0294	0.0052		EPA 200.8
CINT	2238A	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	9-Apr-2024	Chemical oxygen demand	46.7	8.95		EPA 410.4
CINT	2238A	9-Apr-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	9-Apr-2024	Copper	0.00277	0.0003		EPA 200.8
CINT	2238A	9-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	9-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	9-Apr-2024	Fluoride	0.887	0.033		EPA 300.0
CINT	2238A	9-Apr-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	9-Apr-2024	Molybdenum	0.00347	0.0002	B	EPA 200.8
CINT	2238A	9-Apr-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	9-Apr-2024	Phosphorus, Total as P	0.037	0.02	J	EPA 365.4
CINT	2238A	9-Apr-2024	Selenium	0.00231	0.0015	J	EPA 200.8
CINT	2238A	9-Apr-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	9-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
CINT	2238A	9-Apr-2024	Zinc		0.0033	U	EPA 200.8
CINT	2238A	10-Apr-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	10-Apr-2024	Ammonia	0.04	0.017	JB	EPA 350.1
CINT	2238A	10-Apr-2024	Arsenic	0.00316	0.002	J	EPA 200.8
CINT	2238A	10-Apr-2024	Boron	0.0377	0.0052		EPA 200.8
CINT	2238A	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	10-Apr-2024	Chemical oxygen demand		8.95	U	EPA 410.4
CINT	2238A	10-Apr-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	10-Apr-2024	Copper	0.00127	0.0003	J	EPA 200.8
CINT	2238A	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	10-Apr-2024	Fluoride	0.787	0.033		EPA 300.0
CINT	2238A	10-Apr-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	10-Apr-2024	Molybdenum	0.00333	0.0002	B	EPA 200.8
CINT	2238A	10-Apr-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	10-Apr-2024	Phosphorus, Total as P	0.031	0.02	J	EPA 365.4
CINT	2238A	10-Apr-2024	Selenium	0.00234	0.0015	J	EPA 200.8
CINT	2238A	10-Apr-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	10-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
CINT	2238A	10-Apr-2024	Zinc		0.0033	U	EPA 200.8
CINT	2238A	11-Apr-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	11-Apr-2024	Ammonia	0.047	0.017	JB	EPA 350.1
CINT	2238A	11-Apr-2024	Arsenic	0.0033	0.002	J	EPA 200.8
CINT	2238A	11-Apr-2024	Boron	0.0251	0.0052		EPA 200.8
CINT	2238A	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	11-Apr-2024	Chemical oxygen demand	63.9	8.95		EPA 410.4
CINT	2238A	11-Apr-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	11-Apr-2024	Copper	0.00647	0.0003		EPA 200.8
CINT	2238A	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	11-Apr-2024	Fluoride	0.892	0.066		EPA 300.0
CINT	2238A	11-Apr-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	11-Apr-2024	Molybdenum	0.00329	0.0002	B	EPA 200.8
CINT	2238A	11-Apr-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	11-Apr-2024	Phosphorus, Total as P	0.024	0.02	J	EPA 365.4
CINT	2238A	11-Apr-2024	Selenium	0.00215	0.0015	J	EPA 200.8
CINT	2238A	11-Apr-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	11-Apr-2024	Solids, total suspended		0.57	U	SM 2540D

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	11-Apr-2024	Zinc		0.0033	U	EPA 200.8
CINT	2238A	12-Apr-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	12-Apr-2024	Ammonia		0.017	U	EPA 350.1
CINT	2238A	12-Apr-2024	Arsenic	0.00515	0.002		EPA 200.8
CINT	2238A	12-Apr-2024	Boron	0.0389	0.0052		EPA 200.8
CINT	2238A	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	12-Apr-2024	Chemical oxygen demand	9.23	8.95	J	EPA 410.4
CINT	2238A	12-Apr-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	12-Apr-2024	Copper	0.000789	0.0003	J	EPA 200.8
CINT	2238A	12-Apr-2024	Fluoride	0.778	0.033		EPA 300.0
CINT	2238A	12-Apr-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	12-Apr-2024	Molybdenum	0.00359	0.0002		EPA 200.8
CINT	2238A	12-Apr-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	12-Apr-2024	Phosphorus, Total as P	0.039	0.02	J	EPA 365.4
CINT	2238A	12-Apr-2024	Selenium	0.00224	0.0015	J	EPA 200.8
CINT	2238A	12-Apr-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	12-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
CINT	2238A	12-Apr-2024	Zinc		0.0033	U	EPA 200.8
WW001	2069A	9-Apr-2024	Aluminum	0.0397	0.0193	J	EPA 200.8
WW001	2069A	9-Apr-2024	Ammonia	7.5	0.85	B	EPA 350.1
WW001	2069A	9-Apr-2024	Arsenic	0.00355	0.002	J	EPA 200.8
WW001	2069A	9-Apr-2024	Boron	0.0572	0.0052		EPA 200.8
WW001	2069A	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	9-Apr-2024	Chemical oxygen demand	79.2	8.95		EPA 410.4
WW001	2069A	9-Apr-2024	Chromium	0.00419	0.003	J	EPA 200.8
WW001	2069A	9-Apr-2024	Copper	0.0359	0.0003		EPA 200.8
WW001	2069A	9-Apr-2024	Fluoride	2.71	0.033		EPA 300.0
WW001	2069A	9-Apr-2024	Lead	0.00143	0.0005	J	EPA 200.8
WW001	2069A	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	9-Apr-2024	Molybdenum	0.0123	0.0002		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	9-Apr-2024	Nickel	0.00213	0.0006		EPA 200.8
WW001	2069A	9-Apr-2024	Phosphorus, Total as P	2.4	0.02		EPA 365.4
WW001	2069A	9-Apr-2024	Selenium	0.00247	0.0015	J	EPA 200.8
WW001	2069A	9-Apr-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	9-Apr-2024	Solids, total suspended	13	2.85		SM 2540D
WW001	2069A	9-Apr-2024	Zinc	0.0386	0.0033		EPA 200.8
WW001	2069A	10-Apr-2024	Aluminum	0.0371	0.0193	J	EPA 200.8
WW001	2069A	10-Apr-2024	Ammonia	5.73	0.17	B	EPA 350.1
WW001	2069A	10-Apr-2024	Arsenic	0.00344	0.002	J	EPA 200.8
WW001	2069A	10-Apr-2024	Boron	0.0557	0.0052		EPA 200.8
WW001	2069A	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	10-Apr-2024	Chemical oxygen demand	77.8	8.95		EPA 410.4
WW001	2069A	10-Apr-2024	Chromium	0.00421	0.003	J	EPA 200.8
WW001	2069A	10-Apr-2024	Copper	0.0207	0.0003		EPA 200.8
WW001	2069A	10-Apr-2024	Fluoride	2.82	0.033		EPA 300.0
WW001	2069A	10-Apr-2024	Lead	0.00133	0.0005	J	EPA 200.8
WW001	2069A	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	10-Apr-2024	Molybdenum	0.00975	0.0002	B	EPA 200.8
WW001	2069A	10-Apr-2024	Nickel	0.00146	0.0006	J	EPA 200.8
WW001	2069A	10-Apr-2024	Phosphorus, Total as P	1.59	0.02		EPA 365.4
WW001	2069A	10-Apr-2024	Selenium	0.00267	0.0015	J	EPA 200.8
WW001	2069A	10-Apr-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	10-Apr-2024	Solids, total suspended	26.5	1.54		SM 2540D
WW001	2069A	10-Apr-2024	Zinc	0.0247	0.0033		EPA 200.8
WW001	2069A	11-Apr-2024	Aluminum	0.0508	0.0193		EPA 200.8
WW001	2069A	11-Apr-2024	Ammonia	9.75	0.85	B	EPA 350.1
WW001	2069A	11-Apr-2024	Arsenic	0.00327	0.002	J	EPA 200.8
WW001	2069A	11-Apr-2024	Boron	0.0516	0.0052		EPA 200.8
WW001	2069A	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	11-Apr-2024	Chemical oxygen demand	106	8.95		EPA 410.4
WW001	2069A	11-Apr-2024	Chromium	0.00333	0.003	J	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	11-Apr-2024	Copper	0.0359	0.0003		EPA 200.8
WW001	2069A	11-Apr-2024	Fluoride	3.47	0.033		EPA 300.0
WW001	2069A	11-Apr-2024	Lead	0.00345	0.0005		EPA 200.8
WW001	2069A	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	11-Apr-2024	Molybdenum	0.0135	0.0002	B	EPA 200.8
WW001	2069A	11-Apr-2024	Nickel	0.0015	0.0006	J	EPA 200.8
WW001	2069A	11-Apr-2024	Phosphorus, Total as P	2.28	0.02		EPA 365.4
WW001	2069A	11-Apr-2024	Selenium	0.00276	0.0015	J	EPA 200.8
WW001	2069A	11-Apr-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	11-Apr-2024	Solids, total suspended	34.7	3.8		SM 2540D
WW001	2069A	11-Apr-2024	Zinc	0.0785	0.0033		EPA 200.8
WW001	2069A	12-Apr-2024	Aluminum	0.0496	0.0193	J	EPA 200.8
WW001	2069A	12-Apr-2024	Ammonia	10.2	0.85		EPA 350.1
WW001	2069A	12-Apr-2024	Arsenic	0.00409	0.002	J	EPA 200.8
WW001	2069A	12-Apr-2024	Boron	0.0568	0.0052		EPA 200.8
WW001	2069A	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	12-Apr-2024	Chemical oxygen demand	102	8.95		EPA 410.4
WW001	2069A	12-Apr-2024	Chromium	0.00357	0.003	J	EPA 200.8
WW001	2069A	12-Apr-2024	Copper	0.0581	0.0003		EPA 200.8
WW001	2069A	12-Apr-2024	Fluoride	2.22	0.033		EPA 300.0
WW001	2069A	12-Apr-2024	Lead	0.0115	0.0005		EPA 200.8
WW001	2069A	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	12-Apr-2024	Molybdenum	0.013	0.0002		EPA 200.8
WW001	2069A	12-Apr-2024	Nickel	0.00146	0.0006	J	EPA 200.8
WW001	2069A	12-Apr-2024	Phosphorus, Total as P	2.7	0.08		EPA 365.4
WW001	2069A	12-Apr-2024	Selenium	0.00252	0.0015	J	EPA 200.8
WW001	2069A	12-Apr-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	12-Apr-2024	Solids, total suspended	68.8	2.28		SM 2540D
WW001	2069A	12-Apr-2024	Zinc	0.0938	0.0033		EPA 200.8
WW006	2069F	9-Apr-2024	Aluminum	0.137	0.0193		EPA 200.8
WW006	2069F	9-Apr-2024	Ammonia	34.8	0.85	B	EPA 350.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	9-Apr-2024	Arsenic	0.00377	0.002	J	EPA 200.8
WW006	2069F	9-Apr-2024	Boron	0.142	0.0052		EPA 200.8
WW006	2069F	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	9-Apr-2024	Chemical oxygen demand	242	8.95		EPA 410.4
WW006	2069F	9-Apr-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	9-Apr-2024	Copper	0.0354	0.0003		EPA 200.8
WW006	2069F	9-Apr-2024	Fluoride	0.758	0.033		EPA 300.0
WW006	2069F	9-Apr-2024	Lead	0.00142	0.0005	J	EPA 200.8
WW006	2069F	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	9-Apr-2024	Molybdenum	0.00351	0.0002		EPA 200.8
WW006	2069F	9-Apr-2024	Nickel	0.00249	0.0006		EPA 200.8
WW006	2069F	9-Apr-2024	Phosphorus, Total as P	5.36	0.08		EPA 365.4
WW006	2069F	9-Apr-2024	Selenium	0.00214	0.0015	J	EPA 200.8
WW006	2069F	9-Apr-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	9-Apr-2024	Solids, total suspended	52	11.4		SM 2540D
WW006	2069F	9-Apr-2024	Zinc	0.143	0.0033		EPA 200.8
WW006	2069F	10-Apr-2024	Aluminum	0.0768	0.0193		EPA 200.8
WW006	2069F	10-Apr-2024	Ammonia	40	0.85	B	EPA 350.1
WW006	2069F	10-Apr-2024	Arsenic	0.00276	0.002	J	EPA 200.8
WW006	2069F	10-Apr-2024	Boron	0.092	0.0052		EPA 200.8
WW006	2069F	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	10-Apr-2024	Chemical oxygen demand	159	8.95		EPA 410.4
WW006	2069F	10-Apr-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	10-Apr-2024	Copper	0.0232	0.0003		EPA 200.8
WW006	2069F	10-Apr-2024	Fluoride	0.735	0.033		EPA 300.0
WW006	2069F	10-Apr-2024	Lead	0.000835	0.0005	J	EPA 200.8
WW006	2069F	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	10-Apr-2024	Molybdenum	0.00317	0.0002	B	EPA 200.8
WW006	2069F	10-Apr-2024	Nickel	0.00155	0.0006	J	EPA 200.8
WW006	2069F	10-Apr-2024	Phosphorus, Total as P	4.86	0.08		EPA 365.4
WW006	2069F	10-Apr-2024	Selenium	0.00171	0.0015	J	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	10-Apr-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	10-Apr-2024	Solids, total suspended	56	5.7		SM 2540D
WW006	2069F	10-Apr-2024	Zinc	0.0733	0.0033		EPA 200.8
WW006	2069F	11-Apr-2024	Aluminum	0.0552	0.0193		EPA 200.8
WW006	2069F	11-Apr-2024	Ammonia	31.2	0.85	B	EPA 350.1
WW006	2069F	11-Apr-2024	Arsenic	0.00285	0.002	J	EPA 200.8
WW006	2069F	11-Apr-2024	Boron	0.134	0.0052		EPA 200.8
WW006	2069F	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	11-Apr-2024	Chemical oxygen demand	117	8.95		EPA 410.4
WW006	2069F	11-Apr-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	11-Apr-2024	Copper	0.0222	0.0003		EPA 200.8
WW006	2069F	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	11-Apr-2024	Fluoride	0.813	0.033		EPA 300.0
WW006	2069F	11-Apr-2024	Lead		0.0005	U	EPA 200.8
WW006	2069F	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	11-Apr-2024	Molybdenum	0.00388	0.0002	B	EPA 200.8
WW006	2069F	11-Apr-2024	Nickel	0.00111	0.0006	J	EPA 200.8
WW006	2069F	11-Apr-2024	Phosphorus, Total as P	4.08	0.08		EPA 365.4
WW006	2069F	11-Apr-2024	Selenium	0.00181	0.0015	J	EPA 200.8
WW006	2069F	11-Apr-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	11-Apr-2024	Solids, total suspended	52.5	2.85		SM 2540D
WW006	2069F	11-Apr-2024	Zinc	0.0401	0.0033		EPA 200.8
WW006	2069F	12-Apr-2024	Aluminum	0.0843	0.0193		EPA 200.8
WW006	2069F	12-Apr-2024	Ammonia	39.8	0.85		EPA 350.1
WW006	2069F	12-Apr-2024	Arsenic	0.00333	0.002	J	EPA 200.8
WW006	2069F	12-Apr-2024	Boron	0.0938	0.0052		EPA 200.8
WW006	2069F	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	12-Apr-2024	Chemical oxygen demand	146	8.95		EPA 410.4
WW006	2069F	12-Apr-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	12-Apr-2024	Copper	0.0235	0.0003		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	12-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	12-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	12-Apr-2024	Fluoride	0.676	0.033		EPA 300.0
WW006	2069F	12-Apr-2024	Lead	0.000648	0.0005	J	EPA 200.8
WW006	2069F	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	12-Apr-2024	Molybdenum	0.00345	0.0002		EPA 200.8
WW006	2069F	12-Apr-2024	Nickel	0.0015	0.0006	J	EPA 200.8
WW006	2069F	12-Apr-2024	Phosphorus, Total as P	4.87	0.08		EPA 365.4
WW006	2069F	12-Apr-2024	Selenium	0.00194	0.0015	J	EPA 200.8
WW006	2069F	12-Apr-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	12-Apr-2024	Solids, total suspended	90	11.4		SM 2540D
WW006	2069F	12-Apr-2024	Zinc	0.0588	0.0033		EPA 200.8
WW007	2069G	9-Apr-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	9-Apr-2024	Ammonia	0.269	0.017		EPA 350.1
WW007	2069G	9-Apr-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	9-Apr-2024	Boron	0.0148	0.0052	J	EPA 200.8
WW007	2069G	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	9-Apr-2024	Chemical oxygen demand	30.4	8.95		EPA 410.4
WW007	2069G	9-Apr-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	9-Apr-2024	Copper	0.00423	0.0003		EPA 200.8
WW007	2069G	9-Apr-2024	Fluoride	3.42	0.033		EPA 300.0
WW007	2069G	9-Apr-2024	Lead	0.000594	0.0005	J	EPA 200.8
WW007	2069G	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	9-Apr-2024	Molybdenum	0.0149	0.0002	B	EPA 200.8
WW007	2069G	9-Apr-2024	Nickel	0.00361	0.0006		EPA 200.8
WW007	2069G	9-Apr-2024	Phosphorus, Total as P	0.171	0.02		EPA 365.4
WW007	2069G	9-Apr-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	9-Apr-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	9-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	9-Apr-2024	Zinc		0.0033	U	EPA 200.8
WW007	2069G	10-Apr-2024	Aluminum		0.0193	U	EPA 200.8

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	10-Apr-2024	Ammonia	1.7	0.017	B	EPA 350.1
WW007	2069G	10-Apr-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	10-Apr-2024	Boron	0.0181	0.0052		EPA 200.8
WW007	2069G	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	10-Apr-2024	Chemical oxygen demand	24.3	8.95		EPA 410.4
WW007	2069G	10-Apr-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	10-Apr-2024	Copper	0.00368	0.0003		EPA 200.8
WW007	2069G	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Apr-2024	Fluoride	4.58	0.033		EPA 300.0
WW007	2069G	10-Apr-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	10-Apr-2024	Molybdenum	0.014	0.0002	B	EPA 200.8
WW007	2069G	10-Apr-2024	Nickel	0.000795	0.0006	J	EPA 200.8
WW007	2069G	10-Apr-2024	Phosphorus, Total as P	0.085	0.02		EPA 365.4
WW007	2069G	10-Apr-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	10-Apr-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	10-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	10-Apr-2024	Zinc		0.0033	U	EPA 200.8
WW007	2069G	11-Apr-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	11-Apr-2024	Ammonia	1.48	0.017	B	EPA 350.1
WW007	2069G	11-Apr-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	11-Apr-2024	Boron	0.0157	0.0052		EPA 200.8
WW007	2069G	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	11-Apr-2024	Chemical oxygen demand	19.7	8.95	J	EPA 410.4
WW007	2069G	11-Apr-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	11-Apr-2024	Copper	0.00343	0.0003		EPA 200.8
WW007	2069G	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	11-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	11-Apr-2024	Fluoride	4.36	0.066		EPA 300.0
WW007	2069G	11-Apr-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	11-Apr-2024	Molybdenum	0.0141	0.0002	B	EPA 200.8
WW007	2069G	11-Apr-2024	Nickel	0.000842	0.0006	J	EPA 200.8
WW007	2069G	11-Apr-2024	Phosphorus, Total as P	1.17	0.02		EPA 365.4
WW007	2069G	11-Apr-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	11-Apr-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	11-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	11-Apr-2024	Zinc		0.0033	U	EPA 200.8
WW007	2069G	12-Apr-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	12-Apr-2024	Ammonia	0.234	0.017		EPA 350.1
WW007	2069G	12-Apr-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	12-Apr-2024	Boron	0.014	0.0052	J	EPA 200.8
WW007	2069G	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	12-Apr-2024	Chemical oxygen demand		8.95	U	EPA 410.4
WW007	2069G	12-Apr-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	12-Apr-2024	Copper	0.00256	0.0003		EPA 200.8
WW007	2069G	12-Apr-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	12-Apr-2024	Fluoride	2.18	0.033		EPA 300.0
WW007	2069G	12-Apr-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	12-Apr-2024	Molybdenum	0.0138	0.0002		EPA 200.8
WW007	2069G	12-Apr-2024	Nickel	0.000724	0.0006	J	EPA 200.8
WW007	2069G	12-Apr-2024	Phosphorus, Total as P	0.199	0.02		EPA 365.4
WW007	2069G	12-Apr-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	12-Apr-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	12-Apr-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	12-Apr-2024	Zinc		0.0033	U	EPA 200.8
WW008	2069I	9-Apr-2024	Aluminum	0.0786	0.0193		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	9-Apr-2024	Ammonia	30.3	1.7	B	EPA 350.1
WW008	2069I	9-Apr-2024	Arsenic	0.00292	0.002	J	EPA 200.8
WW008	2069I	9-Apr-2024	Boron	0.0576	0.0052		EPA 200.8
WW008	2069I	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	9-Apr-2024	Chemical oxygen demand	184	8.95		EPA 410.4
WW008	2069I	9-Apr-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	9-Apr-2024	Copper	0.0313	0.0003		EPA 200.8
WW008	2069I	9-Apr-2024	Fluoride	0.756	0.033		EPA 300.0
WW008	2069I	9-Apr-2024	Lead	0.000542	0.0005	J	EPA 200.8
WW008	2069I	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	9-Apr-2024	Molybdenum	0.00381	0.0002		EPA 200.8
WW008	2069I	9-Apr-2024	Nickel	0.00588	0.0006		EPA 200.8
WW008	2069I	9-Apr-2024	Phosphorus, Total as P	7.28	0.08		EPA 365.4
WW008	2069I	9-Apr-2024	Selenium	0.00212	0.0015	J	EPA 200.8
WW008	2069I	9-Apr-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	9-Apr-2024	Solids, total suspended	114	11.4		SM 2540D
WW008	2069I	9-Apr-2024	Zinc	0.0703	0.0033		EPA 200.8
WW008	2069I	10-Apr-2024	Aluminum	0.0603	0.0193		EPA 200.8
WW008	2069I	10-Apr-2024	Ammonia	23.1	0.85	B	EPA 350.1
WW008	2069I	10-Apr-2024	Arsenic	0.00247	0.002	J	EPA 200.8
WW008	2069I	10-Apr-2024	Boron	0.047	0.0052		EPA 200.8
WW008	2069I	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	10-Apr-2024	Chemical oxygen demand	103	8.95		EPA 410.4
WW008	2069I	10-Apr-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	10-Apr-2024	Copper	0.0224	0.0003		EPA 200.8
WW008	2069I	10-Apr-2024	Fluoride	0.688	0.033		EPA 300.0
WW008	2069I	10-Apr-2024	Lead		0.0005	U	EPA 200.8
WW008	2069I	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	10-Apr-2024	Molybdenum	0.00355	0.0002	B	EPA 200.8
WW008	2069I	10-Apr-2024	Nickel	0.00358	0.0006		EPA 200.8
WW008	2069I	10-Apr-2024	Phosphorus, Total as P	2.95	0.08		EPA 365.4

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	10-Apr-2024	Selenium	0.00179	0.0015	J	EPA 200.8
WW008	2069I	10-Apr-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	10-Apr-2024	Solids, total suspended	99	5.7		SM 2540D
WW008	2069I	10-Apr-2024	Zinc	0.0522	0.0033		EPA 200.8
WW008	2069I	11-Apr-2024	Aluminum	0.0713	0.0193		EPA 200.8
WW008	2069I	11-Apr-2024	Ammonia	19.5	0.85	B	EPA 350.1
WW008	2069I	11-Apr-2024	Arsenic	0.00237	0.002	J	EPA 200.8
WW008	2069I	11-Apr-2024	Boron	0.0397	0.0052		EPA 200.8
WW008	2069I	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	11-Apr-2024	Chemical oxygen demand	82.5	8.95		EPA 410.4
WW008	2069I	11-Apr-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	11-Apr-2024	Copper	0.0209	0.0003		EPA 200.8
WW008	2069I	11-Apr-2024	Fluoride	0.664	0.033		EPA 300.0
WW008	2069I	11-Apr-2024	Lead	0.000768	0.0005	J	EPA 200.8
WW008	2069I	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	11-Apr-2024	Molybdenum	0.00317	0.0002	B	EPA 200.8
WW008	2069I	11-Apr-2024	Nickel	0.00307	0.0006		EPA 200.8
WW008	2069I	11-Apr-2024	Phosphorus, Total as P	2.66	0.08		EPA 365.4
WW008	2069I	11-Apr-2024	Selenium	0.00166	0.0015	J	EPA 200.8
WW008	2069I	11-Apr-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	11-Apr-2024	Solids, total suspended	55.5	2.85		SM 2540D
WW008	2069I	11-Apr-2024	Zinc	0.0484	0.0033		EPA 200.8
WW008	2069I	12-Apr-2024	Aluminum	0.0267	0.0193	J	EPA 200.8
WW008	2069I	12-Apr-2024	Ammonia	16.9	0.85		EPA 350.1
WW008	2069I	12-Apr-2024	Arsenic	0.00249	0.002	J	EPA 200.8
WW008	2069I	12-Apr-2024	Boron	0.0636	0.0052		EPA 200.8
WW008	2069I	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	12-Apr-2024	Chemical oxygen demand	48.8	8.95		EPA 410.4
WW008	2069I	12-Apr-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	12-Apr-2024	Copper	0.0122	0.0003		EPA 200.8
WW008	2069I	12-Apr-2024	Fluoride	0.618	0.033		EPA 300.0

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	12-Apr-2024	Lead		0.0005	U	EPA 200.8
WW008	2069I	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	12-Apr-2024	Molybdenum	0.00355	0.0002		EPA 200.8
WW008	2069I	12-Apr-2024	Nickel	0.00172	0.0006	J	EPA 200.8
WW008	2069I	12-Apr-2024	Phosphorus, Total as P	2.42	0.08		EPA 365.4
WW008	2069I	12-Apr-2024	Selenium	0.00166	0.0015	J	EPA 200.8
WW008	2069I	12-Apr-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	12-Apr-2024	Solids, total suspended	58.8	2.28		SM 2540D
WW008	2069I	12-Apr-2024	Zinc	0.0248	0.0033		EPA 200.8
WW011	2069K	9-Apr-2024	Aluminum	0.29	0.0193		EPA 200.8
WW011	2069K	9-Apr-2024	Ammonia	30.4	0.85	B	EPA 350.1
WW011	2069K	9-Apr-2024	Arsenic	0.00256	0.002	J	EPA 200.8
WW011	2069K	9-Apr-2024	Boron	0.0911	0.0052		EPA 200.8
WW011	2069K	9-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	9-Apr-2024	Chemical oxygen demand	454	8.95		EPA 410.4
WW011	2069K	9-Apr-2024	Chromium	0.00857	0.003	J	EPA 200.8
WW011	2069K	9-Apr-2024	Copper	0.0596	0.0003		EPA 200.8
WW011	2069K	9-Apr-2024	Fluoride	0.734	0.132		EPA 300.0
WW011	2069K	9-Apr-2024	Lead	0.00125	0.0005	J	EPA 200.8
WW011	2069K	9-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	9-Apr-2024	Molybdenum	0.00398	0.0002		EPA 200.8
WW011	2069K	9-Apr-2024	Nickel	0.0098	0.0006		EPA 200.8
WW011	2069K	9-Apr-2024	Phosphorus, Total as P	16.8	0.4		EPA 365.4
WW011	2069K	9-Apr-2024	Selenium	0.00179	0.0015	J	EPA 200.8
WW011	2069K	9-Apr-2024	Silver		0.0003	U	EPA 200.8
WW011	2069K	9-Apr-2024	Solids, total suspended	126	11.4		SM 2540D
WW011	2069K	9-Apr-2024	Zinc	0.454	0.0033		EPA 200.8
WW011	2069K	10-Apr-2024	Aluminum	0.161	0.0193		EPA 200.8
WW011	2069K	10-Apr-2024	Ammonia	27.2	0.85	B	EPA 350.1
WW011	2069K	10-Apr-2024	Arsenic	0.00267	0.002	J	EPA 200.8
WW011	2069K	10-Apr-2024	Boron	0.0688	0.0052		EPA 200.8

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	10-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	10-Apr-2024	Chemical oxygen demand	285	8.95		EPA 410.4
WW011	2069K	10-Apr-2024	Chromium	0.00491	0.003	J	EPA 200.8
WW011	2069K	10-Apr-2024	Copper	0.0557	0.0003		EPA 200.8
WW011	2069K	10-Apr-2024	Fluoride	0.693	0.132		EPA 300.0
WW011	2069K	10-Apr-2024	Lead	0.00124	0.0005	J	EPA 200.8
WW011	2069K	10-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	10-Apr-2024	Molybdenum	0.0043	0.0002	B	EPA 200.8
WW011	2069K	10-Apr-2024	Nickel	0.00492	0.0006		EPA 200.8
WW011	2069K	10-Apr-2024	Phosphorus, Total as P	16.2	0.4		EPA 365.4
WW011	2069K	10-Apr-2024	Selenium	0.00171	0.0015	J	EPA 200.8
WW011	2069K	10-Apr-2024	Silver		0.0003	U	EPA 200.8
WW011	2069K	10-Apr-2024	Solids, total suspended	155	9.5		SM 2540D
WW011	2069K	10-Apr-2024	Zinc	0.156	0.0033		EPA 200.8
WW011	2069K	11-Apr-2024	Aluminum	0.106	0.0193		EPA 200.8
WW011	2069K	11-Apr-2024	Ammonia	24.4	0.85	B	EPA 350.1
WW011	2069K	11-Apr-2024	Arsenic	0.00247	0.002	J	EPA 200.8
WW011	2069K	11-Apr-2024	Boron	0.0799	0.0052		EPA 200.8
WW011	2069K	11-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	11-Apr-2024	Chemical oxygen demand	345	8.95		EPA 410.4
WW011	2069K	11-Apr-2024	Chromium	0.00304	0.003	J	EPA 200.8
WW011	2069K	11-Apr-2024	Copper	0.0454	0.0003		EPA 200.8
WW011	2069K	11-Apr-2024	Fluoride	0.658	0.132		EPA 300.0
WW011	2069K	11-Apr-2024	Lead	0.000702	0.0005	J	EPA 200.8
WW011	2069K	11-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	11-Apr-2024	Molybdenum	0.0037	0.0002	B	EPA 200.8
WW011	2069K	11-Apr-2024	Nickel	0.00349	0.0006		EPA 200.8
WW011	2069K	11-Apr-2024	Phosphorus, Total as P	10	0.08		EPA 365.4
WW011	2069K	11-Apr-2024	Selenium	0.00162	0.0015	J	EPA 200.8
WW011	2069K	11-Apr-2024	Silver		0.0003	U	EPA 200.8
WW011	2069K	11-Apr-2024	Solids, total suspended	83.6	5.18		SM 2540D

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	11-Apr-2024	Zinc	0.112	0.0033		EPA 200.8
WW011	2069K	12-Apr-2024	Aluminum	0.181	0.0193		EPA 200.8
WW011	2069K	12-Apr-2024	Ammonia	20.7	0.85		EPA 350.1
WW011	2069K	12-Apr-2024	Arsenic	0.00304	0.002	J	EPA 200.8
WW011	2069K	12-Apr-2024	Boron	0.0592	0.0052		EPA 200.8
WW011	2069K	12-Apr-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	12-Apr-2024	Chemical oxygen demand	188	8.95		EPA 410.4
WW011	2069K	12-Apr-2024	Chromium	0.00407	0.003	J	EPA 200.8
WW011	2069K	12-Apr-2024	Copper	0.0515	0.0003		EPA 200.8
WW011	2069K	12-Apr-2024	Fluoride	0.631	0.033		EPA 300.0
WW011	2069K	12-Apr-2024	Lead	0.00137	0.0005	J	EPA 200.8
WW011	2069K	12-Apr-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	12-Apr-2024	Molybdenum	0.00426	0.0002		EPA 200.8
WW011	2069K	12-Apr-2024	Nickel	0.00307	0.0006		EPA 200.8
WW011	2069K	12-Apr-2024	Phosphorus, Total as P	8.16	0.08		EPA 365.4
WW011	2069K	12-Apr-2024	Selenium	0.00189	0.0015	J	EPA 200.8
WW011	2069K	12-Apr-2024	Silver	0.000333	0.0003	J	EPA 200.8
WW011	2069K	12-Apr-2024	Solids, total suspended	290	5.7		SM 2540D
WW011	2069K	12-Apr-2024	Zinc	0.141	0.0033		EPA 200.8

^a Blank cells indicate that the data did not require a data qualifier.

CINT = Center for Integrated Nanotechnologies

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Laboratory Data QualifierM

B = The analyte was detected in the blank.

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

U = The analyte was absent or below the method detection limit.

Analytical Method

EPA 200.8 (EPA 1994)

Appendix D. Sanitary Outfalls Monitoring Results in 2024

EPA 245.1/245.2 (EPA 1994) (EPA 1974)

EPA 300.0 (EPA 1993)

EPA 335.4 (EPA 1993)

EPA 350.1 (EPA 1993)

EPA 365.4 (EPA 1974)

EPA 410.4 (EPA 1993)

SM 2540D (Standard Methods Committee of the American Public Health Association, American Water Works Association, and Water Environment Federation 2018)

Table D-2. Inorganic results for permitted sanitary outfalls, fourth quarter of calendar year 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	10-Dec-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	10-Dec-2024	Ammonia	1.42	0.085		EPA 350.1
CINT	2238A	10-Dec-2024	Arsenic	0.00451	0.002	J	EPA 200.8
CINT	2238A	10-Dec-2024	Boron	0.0444	0.0052		EPA 200.8
CINT	2238A	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	10-Dec-2024	Chemical oxygen demand		8.95	U	EPA 410.4
CINT	2238A	10-Dec-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	10-Dec-2024	Copper	0.00126	0.0003	J	EPA 200.8
CINT	2238A	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	10-Dec-2024	Fluoride	3.54	0.033		EPA 300.0
CINT	2238A	10-Dec-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	10-Dec-2024	Molybdenum	0.00348	0.0002		EPA 200.8
CINT	2238A	10-Dec-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	10-Dec-2024	Phosphorus, Total as P		0.08	U	EPA 365.4
CINT	2238A	10-Dec-2024	Selenium	0.00229	0.0015	J	EPA 200.8
CINT	2238A	10-Dec-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	10-Dec-2024	Solids, total suspended		0.57	U	SM 2540D
CINT	2238A	10-Dec-2024	Zinc		0.0033	U	EPA 200.8
CINT	2238A	11-Dec-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	11-Dec-2024	Ammonia	0.059	0.017		EPA 350.1
CINT	2238A	11-Dec-2024	Arsenic	0.00507	0.002		EPA 200.8
CINT	2238A	11-Dec-2024	Boron	0.0456	0.0052		EPA 200.8
CINT	2238A	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	11-Dec-2024	Chemical oxygen demand		8.95	U	EPA 410.4
CINT	2238A	11-Dec-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	11-Dec-2024	Copper	0.0011	0.0003	J	EPA 200.8
CINT	2238A	11-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
CINT	2238A	11-Dec-2024	Fluoride	0.988	0.033		EPA 300.0
CINT	2238A	11-Dec-2024	Lead		0.0005	U	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	11-Dec-2024	Molybdenum	0.00379	0.0002		EPA 200.8
CINT	2238A	11-Dec-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	11-Dec-2024	Phosphorus, Total as P		0.08	U	EPA 365.4
CINT	2238A	11-Dec-2024	Selenium	0.00241	0.0015	J	EPA 200.8
CINT	2238A	11-Dec-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	11-Dec-2024	Solids, total suspended		0.57	U	SM 2540D
CINT	2238A	11-Dec-2024	Zinc		0.0033	U	EPA 200.8
CINT	2238A	12-Dec-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	12-Dec-2024	Ammonia	0.019	0.017	J	EPA 350.1
CINT	2238A	12-Dec-2024	Arsenic	0.00567	0.002		EPA 200.8
CINT	2238A	12-Dec-2024	Boron	0.0499	0.0052		EPA 200.8
CINT	2238A	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8
CINT	2238A	12-Dec-2024	Chemical oxygen demand	19.1	8.95	J	EPA 410.4
CINT	2238A	12-Dec-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	12-Dec-2024	Copper	0.00693	0.0003		EPA 200.8
CINT	2238A	12-Dec-2024	Fluoride	0.794	0.033		EPA 300.0
CINT	2238A	12-Dec-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	12-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	12-Dec-2024	Molybdenum	0.00429	0.0002		EPA 200.8
CINT	2238A	12-Dec-2024	Nickel	0.00247	0.0006		EPA 200.8
CINT	2238A	12-Dec-2024	Phosphorus, Total as P		0.08	U	EPA 365.4
CINT	2238A	12-Dec-2024	Selenium	0.00242	0.0015	J	EPA 200.8
CINT	2238A	12-Dec-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	12-Dec-2024	Solids, total suspended	1.15	0.594	J	SM 2540D
CINT	2238A	12-Dec-2024	Zinc	0.00414	0.0033	J	EPA 200.8
CINT	2238A	13-Dec-2024	Aluminum		0.0193	U	EPA 200.8
CINT	2238A	13-Dec-2024	Ammonia	0.045	0.017	J	EPA 350.1
CINT	2238A	13-Dec-2024	Arsenic	0.00496	0.002	J	EPA 200.8
CINT	2238A	13-Dec-2024	Boron	0.0485	0.0052		EPA 200.8
CINT	2238A	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	13-Dec-2024	Chemical oxygen demand		8.95	U	EPA 410.4
CINT	2238A	13-Dec-2024	Chromium		0.003	U	EPA 200.8
CINT	2238A	13-Dec-2024	Copper	0.00109	0.0003	J	EPA 200.8
CINT	2238A	13-Dec-2024	Fluoride	0.645	0.033		EPA 300.0
CINT	2238A	13-Dec-2024	Lead		0.0005	U	EPA 200.8
CINT	2238A	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
CINT	2238A	13-Dec-2024	Molybdenum	0.00375	0.0002		EPA 200.8
CINT	2238A	13-Dec-2024	Nickel		0.0006	U	EPA 200.8
CINT	2238A	13-Dec-2024	Phosphorus, Total as P		0.02	U	EPA 365.4
CINT	2238A	13-Dec-2024	Selenium	0.00228	0.0015	J	EPA 200.8
CINT	2238A	13-Dec-2024	Silver		0.0003	U	EPA 200.8
CINT	2238A	13-Dec-2024	Solids, total suspended	1.3	0.57	J	SM 2540D
CINT	2238A	13-Dec-2024	Zinc		0.0033	U	EPA 200.8
WW001	2069A	9-Dec-2024	Cyanide, total	0.00326	0.00167	J	EPA 335.4
WW001	2069A	9-Dec-2024	Cyanide, total	0.00302	0.00167	J	EPA 335.4
WW001	2069A	9-Dec-2024	Cyanide, total	0.0108	0.00167		EPA 335.4
WW001	2069A	9-Dec-2024	Cyanide, total	0.00282	0.00167	J	EPA 335.4
WW001	2069A	10-Dec-2024	Aluminum	0.0373	0.0193	J	EPA 200.8
WW001	2069A	10-Dec-2024	Ammonia	8.18	0.17		EPA 350.1
WW001	2069A	10-Dec-2024	Arsenic	0.00434	0.002	J	EPA 200.8
WW001	2069A	10-Dec-2024	Boron	0.0956	0.0052		EPA 200.8
WW001	2069A	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	10-Dec-2024	Chemical oxygen demand	107	8.95		EPA 410.4
WW001	2069A	10-Dec-2024	Chromium	0.0037	0.003	J	EPA 200.8
WW001	2069A	10-Dec-2024	Copper	0.0307	0.0003		EPA 200.8
WW001	2069A	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW001	2069A	10-Dec-2024	Cyanide, total	0.00596	0.00167		EPA 335.4
WW001	2069A	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW001	2069A	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW001	2069A	10-Dec-2024	Fluoride	2.57	0.033		EPA 300.0
WW001	2069A	10-Dec-2024	Lead	0.00177	0.0005	J	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	10-Dec-2024	Molybdenum	0.0126	0.0002		EPA 200.8
WW001	2069A	10-Dec-2024	Nickel	0.00198	0.0006	J	EPA 200.8
WW001	2069A	10-Dec-2024	Phosphorus, Total as P	1.8	0.08		EPA 365.4
WW001	2069A	10-Dec-2024	Selenium	0.00259	0.0015	J	EPA 200.8
WW001	2069A	10-Dec-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	10-Dec-2024	Solids, total suspended	28.5	2.85	B	SM 2540D
WW001	2069A	10-Dec-2024	Zinc	0.096	0.0033		EPA 200.8
WW001	2069A	11-Dec-2024	Aluminum	0.0453	0.0193	J	EPA 200.8
WW001	2069A	11-Dec-2024	Ammonia	12.4	0.17		EPA 350.1
WW001	2069A	11-Dec-2024	Arsenic	0.00524	0.002		EPA 200.8
WW001	2069A	11-Dec-2024	Boron	0.105	0.0052		EPA 200.8
WW001	2069A	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	11-Dec-2024	Chemical oxygen demand	132	8.95		EPA 410.4
WW001	2069A	11-Dec-2024	Chromium	0.00483	0.003	J	EPA 200.8
WW001	2069A	11-Dec-2024	Copper	0.0552	0.0003		EPA 200.8
WW001	2069A	11-Dec-2024	Fluoride	2.7	0.033		EPA 300.0
WW001	2069A	11-Dec-2024	Lead	0.00343	0.0005		EPA 200.8
WW001	2069A	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	11-Dec-2024	Molybdenum	0.00868	0.0002		EPA 200.8
WW001	2069A	11-Dec-2024	Nickel	0.003	0.0006		EPA 200.8
WW001	2069A	11-Dec-2024	Phosphorus, Total as P	2.63	0.08		EPA 365.4
WW001	2069A	11-Dec-2024	Selenium	0.00318	0.0015	J	EPA 200.8
WW001	2069A	11-Dec-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	11-Dec-2024	Solids, total suspended	29	2.85		SM 2540D
WW001	2069A	11-Dec-2024	Zinc	0.167	0.0033		EPA 200.8
WW001	2069A	12-Dec-2024	Aluminum	0.0584	0.0193		EPA 200.8
WW001	2069A	12-Dec-2024	Ammonia	11.8	0.17		EPA 350.1
WW001	2069A	12-Dec-2024	Arsenic	0.00528	0.002		EPA 200.8
WW001	2069A	12-Dec-2024	Boron	0.104	0.0052		EPA 200.8
WW001	2069A	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	12-Dec-2024	Chemical oxygen demand	145	8.95		EPA 410.4
WW001	2069A	12-Dec-2024	Chromium	0.00399	0.003	J	EPA 200.8
WW001	2069A	12-Dec-2024	Copper	0.0473	0.0003		EPA 200.8
WW001	2069A	12-Dec-2024	Fluoride	2.91	0.033		EPA 300.0
WW001	2069A	12-Dec-2024	Lead	0.0423	0.0005		EPA 200.8
WW001	2069A	12-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	12-Dec-2024	Molybdenum	0.0134	0.0002		EPA 200.8
WW001	2069A	12-Dec-2024	Nickel	0.00239	0.0006		EPA 200.8
WW001	2069A	12-Dec-2024	Phosphorus, Total as P	12.5	0.4		EPA 365.4
WW001	2069A	12-Dec-2024	Selenium	0.00257	0.0015	J	EPA 200.8
WW001	2069A	12-Dec-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	12-Dec-2024	Solids, total suspended	38	5.7		SM 2540D
WW001	2069A	12-Dec-2024	Zinc	0.143	0.0033		EPA 200.8
WW001	2069A	13-Dec-2024	Aluminum	0.0259	0.0193	J	EPA 200.8
WW001	2069A	13-Dec-2024	Ammonia	18.8	0.17		EPA 350.1
WW001	2069A	13-Dec-2024	Arsenic	0.00524	0.002		EPA 200.8
WW001	2069A	13-Dec-2024	Boron	0.102	0.0052		EPA 200.8
WW001	2069A	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW001	2069A	13-Dec-2024	Chemical oxygen demand	108	8.95		EPA 410.4
WW001	2069A	13-Dec-2024	Chromium	0.00436	0.003	J	EPA 200.8
WW001	2069A	13-Dec-2024	Copper	0.026	0.0003		EPA 200.8
WW001	2069A	13-Dec-2024	Fluoride	1.78	0.066		EPA 300.0
WW001	2069A	13-Dec-2024	Lead	0.00197	0.0005	J	EPA 200.8
WW001	2069A	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW001	2069A	13-Dec-2024	Molybdenum	0.0113	0.0002		EPA 200.8
WW001	2069A	13-Dec-2024	Nickel	0.00247	0.0006		EPA 200.8
WW001	2069A	13-Dec-2024	Phosphorus, Total as P	8.28	0.8		EPA 365.4
WW001	2069A	13-Dec-2024	Selenium	0.00237	0.0015	J	EPA 200.8
WW001	2069A	13-Dec-2024	Silver		0.0003	U	EPA 200.8
WW001	2069A	13-Dec-2024	Solids, total suspended	42	5.7		SM 2540D
WW001	2069A	13-Dec-2024	Zinc	0.0883	0.0033		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	9-Dec-2024	Cyanide, total	0.00197	0.00167	J	EPA 335.4
WW006	2069F	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	10-Dec-2024	Aluminum	0.0582	0.0193		EPA 200.8
WW006	2069F	10-Dec-2024	Ammonia	27.1	0.425		EPA 350.1
WW006	2069F	10-Dec-2024	Arsenic	0.00366	0.002	J	EPA 200.8
WW006	2069F	10-Dec-2024	Boron	0.0735	0.0052		EPA 200.8
WW006	2069F	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	10-Dec-2024	Chemical oxygen demand	73.6	8.95		EPA 410.4
WW006	2069F	10-Dec-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	10-Dec-2024	Copper	0.0177	0.0003		EPA 200.8
WW006	2069F	10-Dec-2024	Cyanide, total	0.00236	0.00167	J	EPA 335.4
WW006	2069F	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW006	2069F	10-Dec-2024	Fluoride	0.31	0.033		EPA 300.0
WW006	2069F	10-Dec-2024	Lead	0.000938	0.0005	J	EPA 200.8
WW006	2069F	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	10-Dec-2024	Molybdenum	0.00353	0.0002		EPA 200.8
WW006	2069F	10-Dec-2024	Nickel	0.00107	0.0006	J	EPA 200.8
WW006	2069F	10-Dec-2024	Phosphorus, Total as P	3.36	0.1		EPA 365.4
WW006	2069F	10-Dec-2024	Selenium	0.00205	0.0015	J	EPA 200.8
WW006	2069F	10-Dec-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	10-Dec-2024	Solids, total suspended	22	2.85	B	SM 2540D
WW006	2069F	10-Dec-2024	Zinc	0.0476	0.0033		EPA 200.8
WW006	2069F	11-Dec-2024	Aluminum	0.0595	0.0193		EPA 200.8
WW006	2069F	11-Dec-2024	Ammonia	48.7	0.425		EPA 350.1
WW006	2069F	11-Dec-2024	Arsenic	0.00404	0.002	J	EPA 200.8
WW006	2069F	11-Dec-2024	Boron	0.0975	0.0052		EPA 200.8
WW006	2069F	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	11-Dec-2024	Chemical oxygen demand	173	8.95		EPA 410.4
WW006	2069F	11-Dec-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	11-Dec-2024	Copper	0.0242	0.0003		EPA 200.8
WW006	2069F	11-Dec-2024	Fluoride	0.714	0.033		EPA 300.0
WW006	2069F	11-Dec-2024	Lead	0.00142	0.0005	J	EPA 200.8
WW006	2069F	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	11-Dec-2024	Molybdenum	0.00377	0.0002		EPA 200.8
WW006	2069F	11-Dec-2024	Nickel	0.00167	0.0006	J	EPA 200.8
WW006	2069F	11-Dec-2024	Phosphorus, Total as P	5.06	0.08		EPA 365.4
WW006	2069F	11-Dec-2024	Selenium	0.00202	0.0015	J	EPA 200.8
WW006	2069F	11-Dec-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	11-Dec-2024	Solids, total suspended	58	5.7		SM 2540D
WW006	2069F	11-Dec-2024	Zinc	0.0591	0.0033		EPA 200.8
WW006	2069F	12-Dec-2024	Aluminum	0.0559	0.0193		EPA 200.8
WW006	2069F	12-Dec-2024	Ammonia	48.2	0.425		EPA 350.1
WW006	2069F	12-Dec-2024	Arsenic	0.00373	0.002	J	EPA 200.8
WW006	2069F	12-Dec-2024	Boron	0.0982	0.0052		EPA 200.8
WW006	2069F	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	12-Dec-2024	Chemical oxygen demand	168	8.95		EPA 410.4
WW006	2069F	12-Dec-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	12-Dec-2024	Copper	0.0235	0.0003		EPA 200.8
WW006	2069F	12-Dec-2024	Fluoride	0.596	0.033		EPA 300.0
WW006	2069F	12-Dec-2024	Lead	0.00255	0.0005		EPA 200.8
WW006	2069F	12-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	12-Dec-2024	Molybdenum	0.00341	0.0002		EPA 200.8
WW006	2069F	12-Dec-2024	Nickel	0.00149	0.0006	J	EPA 200.8
WW006	2069F	12-Dec-2024	Phosphorus, Total as P	5.02	0.08		EPA 365.4
WW006	2069F	12-Dec-2024	Selenium	0.00186	0.0015	J	EPA 200.8
WW006	2069F	12-Dec-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	12-Dec-2024	Solids, total suspended	47	5.7		SM 2540D
WW006	2069F	12-Dec-2024	Zinc	0.0557	0.0033		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	13-Dec-2024	Aluminum	0.0655	0.0193		EPA 200.8
WW006	2069F	13-Dec-2024	Ammonia	49.6	0.85		EPA 350.1
WW006	2069F	13-Dec-2024	Arsenic	0.00332	0.002	J	EPA 200.8
WW006	2069F	13-Dec-2024	Boron	0.152	0.0052		EPA 200.8
WW006	2069F	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW006	2069F	13-Dec-2024	Chemical oxygen demand	210	8.95		EPA 410.4
WW006	2069F	13-Dec-2024	Chromium		0.003	U	EPA 200.8
WW006	2069F	13-Dec-2024	Copper	0.0248	0.0003		EPA 200.8
WW006	2069F	13-Dec-2024	Fluoride	0.615	0.033		EPA 300.0
WW006	2069F	13-Dec-2024	Lead	0.00172	0.0005	J	EPA 200.8
WW006	2069F	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW006	2069F	13-Dec-2024	Molybdenum	0.00378	0.0002		EPA 200.8
WW006	2069F	13-Dec-2024	Nickel	0.00176	0.0006	J	EPA 200.8
WW006	2069F	13-Dec-2024	Phosphorus, Total as P	3.56	0.8		EPA 365.4
WW006	2069F	13-Dec-2024	Selenium	0.00187	0.0015	J	EPA 200.8
WW006	2069F	13-Dec-2024	Silver		0.0003	U	EPA 200.8
WW006	2069F	13-Dec-2024	Solids, total suspended	70	5.7		SM 2540D
WW006	2069F	13-Dec-2024	Zinc	0.0552	0.0033		EPA 200.8
WW007	2069G	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	9-Dec-2024	Cyanide, total	0.0043	0.00167	J	EPA 335.4
WW007	2069G	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	9-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Dec-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	10-Dec-2024	Ammonia	0.96	0.085		EPA 350.1
WW007	2069G	10-Dec-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	10-Dec-2024	Boron	0.0184	0.0052		EPA 200.8
WW007	2069G	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	10-Dec-2024	Chemical oxygen demand	14.1	8.95	J	EPA 410.4
WW007	2069G	10-Dec-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	10-Dec-2024	Copper	0.00434	0.0003		EPA 200.8
WW007	2069G	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Dec-2024	Cyanide, total		0.00167	U	EPA 335.4
WW007	2069G	10-Dec-2024	Fluoride	3.69	0.033		EPA 300.0
WW007	2069G	10-Dec-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	10-Dec-2024	Molybdenum	0.0142	0.0002		EPA 200.8
WW007	2069G	10-Dec-2024	Nickel	0.00308	0.0006		EPA 200.8
WW007	2069G	10-Dec-2024	Phosphorus, Total as P	0.089	0.02		EPA 365.4
WW007	2069G	10-Dec-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	10-Dec-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	10-Dec-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	10-Dec-2024	Zinc		0.0033	U	EPA 200.8
WW007	2069G	11-Dec-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	11-Dec-2024	Ammonia	2.1	0.085		EPA 350.1
WW007	2069G	11-Dec-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	11-Dec-2024	Boron	0.0217	0.0052		EPA 200.8
WW007	2069G	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	11-Dec-2024	Chemical oxygen demand	13.3	8.95	J	EPA 410.4
WW007	2069G	11-Dec-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	11-Dec-2024	Copper	0.00405	0.0003		EPA 200.8
WW007	2069G	11-Dec-2024	Fluoride	3.8	0.033		EPA 300.0
WW007	2069G	11-Dec-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	11-Dec-2024	Molybdenum	0.0139	0.0002		EPA 200.8
WW007	2069G	11-Dec-2024	Nickel	0.00155	0.0006	J	EPA 200.8
WW007	2069G	11-Dec-2024	Phosphorus, Total as P		0.08	U	EPA 365.4
WW007	2069G	11-Dec-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	11-Dec-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	11-Dec-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	11-Dec-2024	Zinc		0.0033	U	EPA 200.8

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	12-Dec-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	12-Dec-2024	Ammonia	2.9	0.085		EPA 350.1
WW007	2069G	12-Dec-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	12-Dec-2024	Boron	0.0266	0.0052		EPA 200.8
WW007	2069G	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	12-Dec-2024	Chemical oxygen demand	23.8	8.95		EPA 410.4
WW007	2069G	12-Dec-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	12-Dec-2024	Copper	0.00444	0.0003		EPA 200.8
WW007	2069G	12-Dec-2024	Fluoride	4.35	0.033		EPA 300.0
WW007	2069G	12-Dec-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	12-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	12-Dec-2024	Molybdenum	0.0139	0.0002		EPA 200.8
WW007	2069G	12-Dec-2024	Nickel	0.00134	0.0006	J	EPA 200.8
WW007	2069G	12-Dec-2024	Phosphorus, Total as P	27.6	0.8		EPA 365.4
WW007	2069G	12-Dec-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	12-Dec-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	12-Dec-2024	Solids, total suspended	0.7	0.57	J	SM 2540D
WW007	2069G	12-Dec-2024	Zinc		0.0033	U	EPA 200.8
WW007	2069G	13-Dec-2024	Aluminum		0.0193	U	EPA 200.8
WW007	2069G	13-Dec-2024	Ammonia	4.17	0.17		EPA 350.1
WW007	2069G	13-Dec-2024	Arsenic		0.002	U	EPA 200.8
WW007	2069G	13-Dec-2024	Boron	0.0184	0.0052		EPA 200.8
WW007	2069G	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW007	2069G	13-Dec-2024	Chemical oxygen demand		8.95	U	EPA 410.4
WW007	2069G	13-Dec-2024	Chromium		0.003	U	EPA 200.8
WW007	2069G	13-Dec-2024	Copper	0.00615	0.0003		EPA 200.8
WW007	2069G	13-Dec-2024	Fluoride	2.42	0.033		EPA 300.0
WW007	2069G	13-Dec-2024	Lead		0.0005	U	EPA 200.8
WW007	2069G	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW007	2069G	13-Dec-2024	Molybdenum	0.0164	0.0002		EPA 200.8
WW007	2069G	13-Dec-2024	Nickel	0.00122	0.0006	J	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	13-Dec-2024	Phosphorus, Total as P	2.6	0.8		EPA 365.4
WW007	2069G	13-Dec-2024	Selenium		0.0015	U	EPA 200.8
WW007	2069G	13-Dec-2024	Silver		0.0003	U	EPA 200.8
WW007	2069G	13-Dec-2024	Solids, total suspended		0.57	U	SM 2540D
WW007	2069G	13-Dec-2024	Zinc		0.0033	U	EPA 200.8
WW008	2069I	10-Dec-2024	Aluminum	0.0561	0.0193		EPA 200.8
WW008	2069I	10-Dec-2024	Ammonia	35.3	0.85		EPA 350.1
WW008	2069I	10-Dec-2024	Arsenic	0.0037	0.002	J	EPA 200.8
WW008	2069I	10-Dec-2024	Boron	0.194	0.0104		EPA 200.8
WW008	2069I	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	10-Dec-2024	Chemical oxygen demand	145	8.95		EPA 410.4
WW008	2069I	10-Dec-2024	Chromium	0.00498	0.003	J	EPA 200.8
WW008	2069I	10-Dec-2024	Copper	0.0801	0.0003		EPA 200.8
WW008	2069I	10-Dec-2024	Fluoride	1.08	0.033		EPA 300.0
WW008	2069I	10-Dec-2024	Lead	0.00061	0.0005	J	EPA 200.8
WW008	2069I	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	10-Dec-2024	Molybdenum	0.0129	0.0002		EPA 200.8
WW008	2069I	10-Dec-2024	Nickel	0.0166	0.0006		EPA 200.8
WW008	2069I	10-Dec-2024	Phosphorus, Total as P	5.16	0.08		EPA 365.4
WW008	2069I	10-Dec-2024	Selenium	0.00255	0.0015	J	EPA 200.8
WW008	2069I	10-Dec-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	10-Dec-2024	Solids, total suspended	72	5.7	B	SM 2540D
WW008	2069I	10-Dec-2024	Zinc	0.0611	0.0033		EPA 200.8
WW008	2069I	11-Dec-2024	Aluminum	0.061	0.0193		EPA 200.8
WW008	2069I	11-Dec-2024	Ammonia	53.7	0.85		EPA 350.1
WW008	2069I	11-Dec-2024	Arsenic	0.00392	0.002	J	EPA 200.8
WW008	2069I	11-Dec-2024	Boron	0.131	0.0052		EPA 200.8
WW008	2069I	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	11-Dec-2024	Chemical oxygen demand	142	8.95		EPA 410.4
WW008	2069I	11-Dec-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	11-Dec-2024	Copper	0.0648	0.0003		EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	11-Dec-2024	Fluoride	0.818	0.033		EPA 300.0
WW008	2069I	11-Dec-2024	Lead	0.000504	0.0005	J	EPA 200.8
WW008	2069I	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	11-Dec-2024	Molybdenum	0.00817	0.0002		EPA 200.8
WW008	2069I	11-Dec-2024	Nickel	0.0201	0.0006		EPA 200.8
WW008	2069I	11-Dec-2024	Phosphorus, Total as P	7.01	0.08		EPA 365.4
WW008	2069I	11-Dec-2024	Selenium	0.00245	0.0015	J	EPA 200.8
WW008	2069I	11-Dec-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	11-Dec-2024	Solids, total suspended	65	5.7		SM 2540D
WW008	2069I	11-Dec-2024	Zinc	0.0656	0.0033		EPA 200.8
WW008	2069I	12-Dec-2024	Aluminum	0.0361	0.0193	J	EPA 200.8
WW008	2069I	12-Dec-2024	Ammonia	37.7	0.425		EPA 350.1
WW008	2069I	12-Dec-2024	Arsenic	0.00388	0.002	J	EPA 200.8
WW008	2069I	12-Dec-2024	Boron	0.125	0.0052		EPA 200.8
WW008	2069I	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	12-Dec-2024	Chemical oxygen demand	105	8.95		EPA 410.4
WW008	2069I	12-Dec-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	12-Dec-2024	Copper	0.0416	0.0003		EPA 200.8
WW008	2069I	12-Dec-2024	Fluoride	0.743	0.033		EPA 300.0
WW008	2069I	12-Dec-2024	Lead		0.0005	U	EPA 200.8
WW008	2069I	12-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	12-Dec-2024	Molybdenum	0.00482	0.0002		EPA 200.8
WW008	2069I	12-Dec-2024	Nickel	0.0127	0.0006		EPA 200.8
WW008	2069I	12-Dec-2024	Phosphorus, Total as P	4.17	0.08		EPA 365.4
WW008	2069I	12-Dec-2024	Selenium	0.00204	0.0015	J	EPA 200.8
WW008	2069I	12-Dec-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	12-Dec-2024	Solids, total suspended	35	5.7		SM 2540D
WW008	2069I	12-Dec-2024	Zinc	0.0392	0.0033		EPA 200.8
WW008	2069I	13-Dec-2024	Aluminum	0.0854	0.0193		EPA 200.8
WW008	2069I	13-Dec-2024	Ammonia	39.7	0.85		EPA 350.1
WW008	2069I	13-Dec-2024	Arsenic	0.004	0.002	J	EPA 200.8

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Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	13-Dec-2024	Boron	0.109	0.0052		EPA 200.8
WW008	2069I	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW008	2069I	13-Dec-2024	Chemical oxygen demand	138	8.95		EPA 410.4
WW008	2069I	13-Dec-2024	Chromium		0.003	U	EPA 200.8
WW008	2069I	13-Dec-2024	Copper	0.069	0.0003		EPA 200.8
WW008	2069I	13-Dec-2024	Fluoride	0.674	0.033		EPA 300.0
WW008	2069I	13-Dec-2024	Lead	0.000629	0.0005	J	EPA 200.8
WW008	2069I	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW008	2069I	13-Dec-2024	Molybdenum	0.00569	0.0002		EPA 200.8
WW008	2069I	13-Dec-2024	Nickel	0.0207	0.0006		EPA 200.8
WW008	2069I	13-Dec-2024	Phosphorus, Total as P	5.1	0.08		EPA 365.4
WW008	2069I	13-Dec-2024	Selenium	0.00236	0.0015	J	EPA 200.8
WW008	2069I	13-Dec-2024	Silver		0.0003	U	EPA 200.8
WW008	2069I	13-Dec-2024	Solids, total suspended	120	11.4		SM 2540D
WW008	2069I	13-Dec-2024	Zinc	0.0714	0.0033		EPA 200.8
WW011	2069K	10-Dec-2024	Aluminum	0.0543	0.0193		EPA 200.8
WW011	2069K	10-Dec-2024	Ammonia	19.7	0.425		EPA 350.1
WW011	2069K	10-Dec-2024	Arsenic	0.00244	0.002	J	EPA 200.8
WW011	2069K	10-Dec-2024	Boron	0.0671	0.0052		EPA 200.8
WW011	2069K	10-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	10-Dec-2024	Chemical oxygen demand	228	8.95		EPA 410.4
WW011	2069K	10-Dec-2024	Chromium		0.003	U	EPA 200.8
WW011	2069K	10-Dec-2024	Copper	0.0195	0.0003		EPA 200.8
WW011	2069K	10-Dec-2024	Fluoride	0.622	0.033		EPA 300.0
WW011	2069K	10-Dec-2024	Lead	0.000664	0.0005	J	EPA 200.8
WW011	2069K	10-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	10-Dec-2024	Molybdenum	0.00356	0.0002		EPA 200.8
WW011	2069K	10-Dec-2024	Nickel	0.00184	0.0006	J	EPA 200.8
WW011	2069K	10-Dec-2024	Phosphorus, Total as P	6.1	0.2		EPA 365.4
WW011	2069K	10-Dec-2024	Selenium		0.0015	U	EPA 200.8
WW011	2069K	10-Dec-2024	Silver	0.000691	0.0003	J	EPA 200.8

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	10-Dec-2024	Solids, total suspended	68	5.7	B	SM 2540D
WW011	2069K	10-Dec-2024	Zinc	0.0534	0.0033		EPA 200.8
WW011	2069K	11-Dec-2024	Aluminum	0.0696	0.0193		EPA 200.8
WW011	2069K	11-Dec-2024	Ammonia	23.9	0.85		EPA 350.1
WW011	2069K	11-Dec-2024	Arsenic	0.00336	0.002	J	EPA 200.8
WW011	2069K	11-Dec-2024	Boron	0.074	0.0052		EPA 200.8
WW011	2069K	11-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	11-Dec-2024	Chemical oxygen demand	163	8.95		EPA 410.4
WW011	2069K	11-Dec-2024	Chromium		0.003	U	EPA 200.8
WW011	2069K	11-Dec-2024	Copper	0.0266	0.0003		EPA 200.8
WW011	2069K	11-Dec-2024	Fluoride	0.581	0.033		EPA 300.0
WW011	2069K	11-Dec-2024	Lead	0.000626	0.0005	J	EPA 200.8
WW011	2069K	11-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	11-Dec-2024	Molybdenum	0.00239	0.0002		EPA 200.8
WW011	2069K	11-Dec-2024	Nickel	0.0022	0.0006		EPA 200.8
WW011	2069K	11-Dec-2024	Phosphorus, Total as P	10.9	0.08		EPA 365.4
WW011	2069K	11-Dec-2024	Selenium	0.00202	0.0015	J	EPA 200.8
WW011	2069K	11-Dec-2024	Silver		0.0003	U	EPA 200.8
WW011	2069K	11-Dec-2024	Solids, total suspended	65	5.7		SM 2540D
WW011	2069K	11-Dec-2024	Zinc	0.104	0.0033		EPA 200.8
WW011	2069K	12-Dec-2024	Aluminum	0.077	0.0193		EPA 200.8
WW011	2069K	12-Dec-2024	Ammonia	13.8	0.425		EPA 350.1
WW011	2069K	12-Dec-2024	Arsenic	0.00373	0.002	J	EPA 200.8
WW011	2069K	12-Dec-2024	Boron	0.056	0.0052		EPA 200.8
WW011	2069K	12-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	12-Dec-2024	Chemical oxygen demand	31500	448		EPA 410.4
WW011	2069K	12-Dec-2024	Chromium	0.00304	0.003	J	EPA 200.8
WW011	2069K	12-Dec-2024	Copper	0.0415	0.0003		EPA 200.8
WW011	2069K	12-Dec-2024	Fluoride	0.675	0.132		EPA 300.0
WW011	2069K	12-Dec-2024	Lead	0.000704	0.0005	J	EPA 200.8
WW011	2069K	12-Dec-2024	Mercury		0.0067	U	EPA 245.1/245.2

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Result (mg/L)	MDL (mg/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	12-Dec-2024	Molybdenum	0.00396	0.0002		EPA 200.8
WW011	2069K	12-Dec-2024	Nickel	0.00146	0.0006	J	EPA 200.8
WW011	2069K	12-Dec-2024	Phosphorus, Total as P	10.1	0.08		EPA 365.4
WW011	2069K	12-Dec-2024	Selenium	0.00651	0.0015		EPA 200.8
WW011	2069K	12-Dec-2024	Silver		0.0003	U	EPA 200.8
WW011	2069K	12-Dec-2024	Solids, total suspended	71	5.7		SM 2540D
WW011	2069K	12-Dec-2024	Zinc	0.0785	0.0033		EPA 200.8
WW011	2069K	13-Dec-2024	Aluminum	0.05	0.0193	J	EPA 200.8
WW011	2069K	13-Dec-2024	Ammonia	16.4	0.17		EPA 350.1
WW011	2069K	13-Dec-2024	Arsenic	0.00223	0.002	J	EPA 200.8
WW011	2069K	13-Dec-2024	Boron	0.0583	0.0052		EPA 200.8
WW011	2069K	13-Dec-2024	Cadmium		0.0003	U	EPA 200.8
WW011	2069K	13-Dec-2024	Chemical oxygen demand	5360	89.5		EPA 410.4
WW011	2069K	13-Dec-2024	Chromium		0.003	U	EPA 200.8
WW011	2069K	13-Dec-2024	Copper	0.019	0.0003		EPA 200.8
WW011	2069K	13-Dec-2024	Fluoride	0.585	0.033		EPA 300.0
WW011	2069K	13-Dec-2024	Lead	0.000569	0.0005	J	EPA 200.8
WW011	2069K	13-Dec-2024	Mercury		0.000067	U	EPA 245.1/245.2
WW011	2069K	13-Dec-2024	Molybdenum	0.00216	0.0002		EPA 200.8
WW011	2069K	13-Dec-2024	Nickel	0.00162	0.0006	J	EPA 200.8
WW011	2069K	13-Dec-2024	Phosphorus, Total as P	9.24	0.8		EPA 365.4
WW011	2069K	13-Dec-2024	Selenium	0.00285	0.0015	J	EPA 200.8
WW011	2069K	13-Dec-2024	Silver	0.0014	0.0003		EPA 200.8
WW011	2069K	13-Dec-2024	Solids, total suspended	46	5.7		SM 2540D
WW011	2069K	13-Dec-2024	Zinc	0.0556	0.0033		EPA 200.8

^a Blank cells indicate that the data did not require a data qualifier.

CINT = Center for Integrated Nanotechnologies

MDL = method detection limit; the minimum concentration or activity that can be measured and reported with 99 percent confidence that the analyte is greater than zero; analyte is matrix-specific

PQL = practical quantitation limit; the lowest concentration of analytes in a sample that can be determined reliably within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Laboratory Data Qualifier

B = The analyte was detected in the blank.

J = An estimated value, the analyte concentration was above the effective MDL and below the effective PQL.

N = A spike was outside limits.

U = The analyte was absent or below the method detection limit.

Analytical Method

EPA 200.8 (EPA 1994)

EPA 245.1/245.2 (EPA 1994)

EPA 300.0 (EPA 1993)

EPA 335.4 (EPA 1993)

EPA 350.1 (EPA 1993)

EPA 365.4 (EPA 1974)

SM 2540D (Standard Methods Committee of the American Public Health Association, American Water Works Association, and Water Environment Federation 2018)

Table D-3. Radiological results for permitted sanitary outfalls, second quarter of calendar year 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	09-Apr-24	Actinium-228	1.66 +- 14.2	14.4	U	EPA 901.1
CINT	2238A	09-Apr-24	Alpha, gross	3.07 +- 1.19	1.45	N	EPA 900.0/SW846 9310
CINT	2238A	09-Apr-24	Americium-241	5.98 +- 8.96	14.5	U	EPA 901.1
CINT	2238A	09-Apr-24	Beryllium-7	10.1 +- 17.9	31.9	U	EPA 901.1
CINT	2238A	09-Apr-24	Beta, gross	4.43 +- 1.87	2.96		EPA 900.0/SW846 9310
CINT	2238A	09-Apr-24	Bismuth-212	7.19 +- 26.8	45.3	U	EPA 901.1
CINT	2238A	09-Apr-24	Bismuth-214	-7.96 +- 7.45	6.73	U	EPA 901.1
CINT	2238A	09-Apr-24	Cesium-137	0.595 +- 1.85	3.16	U	EPA 901.1
CINT	2238A	09-Apr-24	Cobalt-60	-0.514 +- 2.14	3.35	U	EPA 901.1
CINT	2238A	09-Apr-24	Lead-212	3.28 +- 6.32	6.24	U	EPA 901.1
CINT	2238A	09-Apr-24	Lead-214	-4.67 +- 6.93	7	U	EPA 901.1
CINT	2238A	09-Apr-24	Neptunium-237	3.57 +- 4.31	6.12	U	EPA 901.1
CINT	2238A	09-Apr-24	Potassium-40	21 +- 47.4	26.3	U	EPA 901.1
CINT	2238A	09-Apr-24	Radium-223	-17.3 +- 33	56.8	U	EPA 901.1
CINT	2238A	09-Apr-24	Radium-224	-60 +- 44.4	53.3	U	EPA 901.1
CINT	2238A	09-Apr-24	Radium-226	-45.8 +- 59.1	73.6	U	EPA 901.1
CINT	2238A	09-Apr-24	Radium-228	1.66 +- 14.2	14.4	U	EPA 901.1
CINT	2238A	09-Apr-24	Sodium-22	0.0886 +- 1.7	3.19	U	EPA 901.1
CINT	2238A	09-Apr-24	Thorium-227	1.88 +- 14.4	23.9	U	EPA 901.1
CINT	2238A	09-Apr-24	Thorium-231	1.68 +- 20	34.9	U	EPA 901.1
CINT	2238A	09-Apr-24	Thorium-234	67.3 +- 146	115	U	EPA 901.1
CINT	2238A	09-Apr-24	Tritium	11.6 +- 88.2	169	U	EPA 906.0 Modified
CINT	2238A	09-Apr-24	Uranium-235	-19 +- 18.4	17.7	U	EPA 901.1
CINT	2238A	09-Apr-24	Uranium-238	67.3 +- 146	115	U	EPA 901.1
CINT	2238A	10-Apr-24	Actinium-228	3.46 +- 16.3	18	U	EPA 901.1
CINT	2238A	10-Apr-24	Alpha, gross	1.68 +- .617	0.805	N	EPA 900.0/SW846 9310
CINT	2238A	10-Apr-24	Americium-241	6.37 +- 12.7	20.6	U	EPA 901.1
CINT	2238A	10-Apr-24	Beryllium-7	-1.12 +- 22.2	38.5	U	EPA 901.1
CINT	2238A	10-Apr-24	Beta, gross	19.2 +- 1.39	0.988		EPA 900.0/SW846 9310
CINT	2238A	10-Apr-24	Bismuth-212	12.4 +- 30.3	55.5	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	10-Apr-24	Bismuth-214	-2.89 +- 8.99	9.56	U	EPA 901.1
CINT	2238A	10-Apr-24	Cesium-137	0.389 +- 5.25	3.88	U	EPA 901.1
CINT	2238A	10-Apr-24	Cobalt-60	-1.53 +- 2.46	3.93	U	EPA 901.1
CINT	2238A	10-Apr-24	Lead-212	-1.87 +- 6.56	7.23	U	EPA 901.1
CINT	2238A	10-Apr-24	Lead-214	0.221 +- 7.57	9.1	U	EPA 901.1
CINT	2238A	10-Apr-24	Neptunium-237	-3.9 +- 6.49	6.85	U	EPA 901.1
CINT	2238A	10-Apr-24	Potassium-40	52.5 +- 64.4	37.2		EPA 901.1
CINT	2238A	10-Apr-24	Radium-223	0.00133 +- 37.4	66.6	U	EPA 901.1
CINT	2238A	10-Apr-24	Radium-224	-64 +- 49.7	68.6	U	EPA 901.1
CINT	2238A	10-Apr-24	Radium-226	50.1 +- 106	65.2	U	EPA 901.1
CINT	2238A	10-Apr-24	Radium-228	3.46 +- 16.3	18	U	EPA 901.1
CINT	2238A	10-Apr-24	Sodium-22	0.332 +- 2.25	4.06	U	EPA 901.1
CINT	2238A	10-Apr-24	Thorium-227	-6.38 +- 14.9	25.9	U	EPA 901.1
CINT	2238A	10-Apr-24	Thorium-231	-7.31 +- 50.5	58.2	U	EPA 901.1
CINT	2238A	10-Apr-24	Thorium-234	40.6 +- 209	242	U	EPA 901.1
CINT	2238A	10-Apr-24	Tritium	9.4 +- 87.7	169	U	EPA 906.0 Modified
CINT	2238A	10-Apr-24	Uranium-235	16.8 +- 26.8	19.7	U	EPA 901.1
CINT	2238A	10-Apr-24	Uranium-238	40.6 +- 209	242	U	EPA 901.1
CINT	2238A	11-Apr-24	Actinium-228	1.27 +- 12	12.9	U	EPA 901.1
CINT	2238A	11-Apr-24	Alpha, gross	4.96 +- 4.27	6.86	UN	EPA 900.0/SW846 9310
CINT	2238A	11-Apr-24	Americium-241	-4.76 +- 8.33	14	U	EPA 901.1
CINT	2238A	11-Apr-24	Beryllium-7	-1.56 +- 24.9	25.1	U	EPA 901.1
CINT	2238A	11-Apr-24	Beta, gross	7.78 +- 5.28	8.66	U	EPA 900.0/SW846 9310
CINT	2238A	11-Apr-24	Bismuth-212	16.6 +- 31.4	30	U	EPA 901.1
CINT	2238A	11-Apr-24	Bismuth-214	0.0352 +- 5.94	5.15	U	EPA 901.1
CINT	2238A	11-Apr-24	Cesium-137	1.99 +- 1.74	2.87	U	EPA 901.1
CINT	2238A	11-Apr-24	Cobalt-60	-0.644 +- 1.51	2.41	U	EPA 901.1
CINT	2238A	11-Apr-24	Lead-212	6.03 +- 6.14	6.03	U	EPA 901.1
CINT	2238A	11-Apr-24	Lead-214	-1.73 +- 4.8	5.75	U	EPA 901.1
CINT	2238A	11-Apr-24	Neptunium-237	-1.49 +- 2.84	4.9	U	EPA 901.1
CINT	2238A	11-Apr-24	Potassium-40	-33.3 +- 37	40.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	11-Apr-24	Radium-223	-9.14 +- 27	47.8	U	EPA 901.1
CINT	2238A	11-Apr-24	Radium-224	4.34 +- 27	41.9	U	EPA 901.1
CINT	2238A	11-Apr-24	Radium-226	1.6 +- 72.1	46.7	U	EPA 901.1
CINT	2238A	11-Apr-24	Radium-228	1.27 +- 12	12.9	U	EPA 901.1
CINT	2238A	11-Apr-24	Sodium-22	1.1 +- 1.72	3.21	U	EPA 901.1
CINT	2238A	11-Apr-24	Thorium-227	-.521 +- 11.8	19.6	U	EPA 901.1
CINT	2238A	11-Apr-24	Thorium-231	-14.7 +- 32.7	35.5	U	EPA 901.1
CINT	2238A	11-Apr-24	Thorium-234	-107 +- 127	152	U	EPA 901.1
CINT	2238A	11-Apr-24	Tritium	37.5 +- 92.7	168	U	EPA 906.0 Modified
CINT	2238A	11-Apr-24	Uranium-235	19.9 +- 21.8	14.4	X	EPA 901.1
CINT	2238A	11-Apr-24	Uranium-238	-107 +- 127	152	U	EPA 901.1
CINT	2238A	12-Apr-24	Actinium-228	1.34 +- 17.6	16	U	EPA 901.1
CINT	2238A	12-Apr-24	Alpha, gross	1.62 +- .754	0.964		EPA 900.0/SW846 9310
CINT	2238A	12-Apr-24	Americium-241	-4.49 +- 15.2	26.5	U	EPA 901.1
CINT	2238A	12-Apr-24	Beryllium-7	-0.73 +- 19.4	34.8	U	EPA 901.1
CINT	2238A	12-Apr-24	Beta, gross	3.15 +- .566	0.786		EPA 900.0/SW846 9310
CINT	2238A	12-Apr-24	Bismuth-212	16 +- 45	53.6	U	EPA 901.1
CINT	2238A	12-Apr-24	Bismuth-214	2.32 +- 8.79	6.66	U	EPA 901.1
CINT	2238A	12-Apr-24	Cesium-137	0.0661 +- 1.89	3.37	U	EPA 901.1
CINT	2238A	12-Apr-24	Cobalt-60	0.682 +- 4.66	3.46	U	EPA 901.1
CINT	2238A	12-Apr-24	Lead-212	3.88 +- 6.9	8	U	EPA 901.1
CINT	2238A	12-Apr-24	Lead-214	5.06 +- 9.44	8.09	U	EPA 901.1
CINT	2238A	12-Apr-24	Neptunium-237	2.96 +- 4.68	6.34	U	EPA 901.1
CINT	2238A	12-Apr-24	Potassium-40	-54.1 +- 54.4	61	U	EPA 901.1
CINT	2238A	12-Apr-24	Radium-223	-16.2 +- 40.1	63.2	U	EPA 901.1
CINT	2238A	12-Apr-24	Radium-224	23.9 +- 40.4	61.7	U	EPA 901.1
CINT	2238A	12-Apr-24	Radium-226	6.4 +- 93.7	62.6	U	EPA 901.1
CINT	2238A	12-Apr-24	Radium-228	1.34 +- 17.6	16	U	EPA 901.1
CINT	2238A	12-Apr-24	Sodium-22	1.94 +- 5.41	3.74	U	EPA 901.1
CINT	2238A	12-Apr-24	Thorium-227	5.18 +- 15.9	26.6	U	EPA 901.1
CINT	2238A	12-Apr-24	Thorium-231	-12.1 +- 45.1	47.5	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	12-Apr-24	Thorium-234	-300 +- 256	221	U	EPA 901.1
CINT	2238A	12-Apr-24	Tritium	8.75 +- 109	195	U	EPA 906.0 Modified
CINT	2238A	12-Apr-24	Uranium-235	-9.86 +- 21	20.9	U	EPA 901.1
CINT	2238A	12-Apr-24	Uranium-238	-300 +- 256	221	U	EPA 901.1
WW001	2069A	09-Apr-24	Actinium-228	-1.88 +- 12.4	16.5	U	EPA 901.1
WW001	2069A	09-Apr-24	Alpha, gross	2.42 +- 1.11	1.52		EPA 900.0/SW846 9310
WW001	2069A	09-Apr-24	Americium-241	-4.55 +- 16.8	27.8	U	EPA 901.1
WW001	2069A	09-Apr-24	Beryllium-7	-10.3 +- 21.7	33	U	EPA 901.1
WW001	2069A	09-Apr-24	Beta, gross	12 +- 1.7	2.24	*	EPA 900.0/SW846 9310
WW001	2069A	09-Apr-24	Bismuth-212	15.6 +- 36.5	47.6	U	EPA 901.1
WW001	2069A	09-Apr-24	Bismuth-214	0.82 +- 10.8	6.96	U	EPA 901.1
WW001	2069A	09-Apr-24	Cesium-137	2.03 +- 2.27	3.93	U	EPA 901.1
WW001	2069A	09-Apr-24	Cobalt-60	0.537 +- 2.34	4.4	U	EPA 901.1
WW001	2069A	09-Apr-24	Lead-212	6.76 +- 8.83	7.27	U	EPA 901.1
WW001	2069A	09-Apr-24	Lead-214	3.05 +- 8.52	8.31	U	EPA 901.1
WW001	2069A	09-Apr-24	Neptunium-237	-2.48 +- 4.28	6.61	U	EPA 901.1
WW001	2069A	09-Apr-24	Potassium-40	34.4 +- 59.8	37	U	EPA 901.1
WW001	2069A	09-Apr-24	Radium-223	-12.6 +- 40.7	65.5	U	EPA 901.1
WW001	2069A	09-Apr-24	Radium-224	46.3 +- 45.5	66.5	U	EPA 901.1
WW001	2069A	09-Apr-24	Radium-226	18.7 +- 94.8	62.6	U	EPA 901.1
WW001	2069A	09-Apr-24	Radium-228	-1.88 +- 12.4	16.5	U	EPA 901.1
WW001	2069A	09-Apr-24	Sodium-22	0.183 +- 2.03	3.83	U	EPA 901.1
WW001	2069A	09-Apr-24	Thorium-227	3.18 +- 15.4	26.1	U	EPA 901.1
WW001	2069A	09-Apr-24	Thorium-231	44.9 +- 45.3	48.6	U	EPA 901.1
WW001	2069A	09-Apr-24	Thorium-234	218 +- 277	198	X	EPA 901.1
WW001	2069A	09-Apr-24	Tritium	-39.7 +- 110	202	U	EPA 906.0 Modified
WW001	2069A	09-Apr-24	Uranium-235	4.64 +- 24.7	20.4	U	EPA 901.1
WW001	2069A	09-Apr-24	Uranium-238	218 +- 277	198	X	EPA 901.1
WW001	2069A	10-Apr-24	Actinium-228	16.7 +- 20.5	13	X	EPA 901.1
WW001	2069A	10-Apr-24	Alpha, gross	1.97 +- 2.06	3.43	UN	EPA 900.0/SW846 9310
WW001	2069A	10-Apr-24	Americium-241	9.5 +- 13	20.6	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	10-Apr-24	Beryllium-7	12.4 +- 22.6	39.2	U	EPA 901.1
WW001	2069A	10-Apr-24	Beta, gross	14.8 +- 2.67	3.68		EPA 900.0/SW846 9310
WW001	2069A	10-Apr-24	Bismuth-212	-5.1 +- 30.1	54.1	U	EPA 901.1
WW001	2069A	10-Apr-24	Bismuth-214	-5.65 +- 9.54	10.1	U	EPA 901.1
WW001	2069A	10-Apr-24	Cesium-137	-3.83 +- 4.74	4.91	U	EPA 901.1
WW001	2069A	10-Apr-24	Cobalt-60	-0.182 +- 2.15	3.82	U	EPA 901.1
WW001	2069A	10-Apr-24	Lead-212	2.04 +- 7.78	6.2	U	EPA 901.1
WW001	2069A	10-Apr-24	Lead-214	-3.44 +- 7.64	8.64	U	EPA 901.1
WW001	2069A	10-Apr-24	Neptunium-237	-1.83 +- 6.29	7	U	EPA 901.1
WW001	2069A	10-Apr-24	Potassium-40	41.3 +- 64.1	39.5		EPA 901.1
WW001	2069A	10-Apr-24	Radium-223	-11.6 +- 37.7	65.6	U	EPA 901.1
WW001	2069A	10-Apr-24	Radium-224	20 +- 41.4	66.9	U	EPA 901.1
WW001	2069A	10-Apr-24	Radium-226	-15 +- 87.1	114	U	EPA 901.1
WW001	2069A	10-Apr-24	Radium-228	16.7 +- 20.5	13	X	EPA 901.1
WW001	2069A	10-Apr-24	Sodium-22	-0.0297 +- 2.2	3.94	U	EPA 901.1
WW001	2069A	10-Apr-24	Thorium-227	-5.92 +- 15.8	27.6	U	EPA 901.1
WW001	2069A	10-Apr-24	Thorium-231	-37.5 +- 53.4	56.7	U	EPA 901.1
WW001	2069A	10-Apr-24	Thorium-234	47.8 +- 248	248	U	EPA 901.1
WW001	2069A	10-Apr-24	Tritium	-33.2 +- 80.6	171	U	EPA 906.0 Modified
WW001	2069A	10-Apr-24	Uranium-235	23.6 +- 30.5	24.7	U	EPA 901.1
WW001	2069A	10-Apr-24	Uranium-238	47.8 +- 248	248	U	EPA 901.1
WW001	2069A	11-Apr-24	Actinium-228	29.1 +- 20.1	29.1	U	EPA 901.1
WW001	2069A	11-Apr-24	Alpha, gross	2.39 +- .915	1.13	N	EPA 900.0/SW846 9310
WW001	2069A	11-Apr-24	Americium-241	9.68 +- 10.1	15.9	U	EPA 901.1
WW001	2069A	11-Apr-24	Beryllium-7	-2.65 +- 18.7	32.4	U	EPA 901.1
WW001	2069A	11-Apr-24	Beta, gross	9.39 +- 1.34	1.72		EPA 900.0/SW846 9310
WW001	2069A	11-Apr-24	Bismuth-212	8.15 +- 38.5	50.7	U	EPA 901.1
WW001	2069A	11-Apr-24	Bismuth-214	-16.9 +- 11.8	8.14	U	EPA 901.1
WW001	2069A	11-Apr-24	Cesium-137	-0.294 +- 3.39	3.55	U	EPA 901.1
WW001	2069A	11-Apr-24	Cobalt-60	-0.528 +- 1.92	3.3	U	EPA 901.1
WW001	2069A	11-Apr-24	Lead-212	-2.55 +- 5.66	6.52	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	11-Apr-24	Lead-214	-6.82 +- 9.59	7.43	U	EPA 901.1
WW001	2069A	11-Apr-24	Neptunium-237	-3.21 +- 3.64	5.76	U	EPA 901.1
WW001	2069A	11-Apr-24	Potassium-40	-128 +- 74.8	47.8	U	EPA 901.1
WW001	2069A	11-Apr-24	Radium-223	-36.7 +- 58.9	58.8	U	EPA 901.1
WW001	2069A	11-Apr-24	Radium-224	-89.7 +- 64.9	55.7	U	EPA 901.1
WW001	2069A	11-Apr-24	Radium-226	58.2 +- 77.5	57.2	X	EPA 901.1
WW001	2069A	11-Apr-24	Radium-228	29.1 +- 20.1	29.1	U	EPA 901.1
WW001	2069A	11-Apr-24	Sodium-22	-1.14 +- 2.09	3.39	U	EPA 901.1
WW001	2069A	11-Apr-24	Thorium-227	-7.1 +- 14.9	23.3	U	EPA 901.1
WW001	2069A	11-Apr-24	Thorium-231	-16.4 +- 39.4	37.9	U	EPA 901.1
WW001	2069A	11-Apr-24	Thorium-234	83.1 +- 203	123	U	EPA 901.1
WW001	2069A	11-Apr-24	Tritium	-8.91 +- 84.5	169	U	EPA 906.0 Modified
WW001	2069A	11-Apr-24	Uranium-235	5.3 +- 24.7	17.3	U	EPA 901.1
WW001	2069A	11-Apr-24	Uranium-238	83.1 +- 203	123	U	EPA 901.1
WW001	2069A	12-Apr-24	Actinium-228	6.64 +- 15.5	19.9	U	EPA 901.1
WW001	2069A	12-Apr-24	Alpha, gross	1.26 +- 1.23	2.03	U	EPA 900.0/SW846 9310
WW001	2069A	12-Apr-24	Americium-241	4.3 +- 6.03	11	U	EPA 901.1
WW001	2069A	12-Apr-24	Beryllium-7	96.3 +- 41.9	39.5	X	EPA 901.1
WW001	2069A	12-Apr-24	Beta, gross	9.06 +- 1.14	1.45		EPA 900.0/SW846 9310
WW001	2069A	12-Apr-24	Bismuth-212	-7.56 +- 49.1	76.5	U	EPA 901.1
WW001	2069A	12-Apr-24	Bismuth-214	2.97 +- 8.73	10.4	U	EPA 901.1
WW001	2069A	12-Apr-24	Cesium-137	1.42 +- 2.44	4.83	U	EPA 901.1
WW001	2069A	12-Apr-24	Cobalt-60	-0.796 +- 3.06	5.39	U	EPA 901.1
WW001	2069A	12-Apr-24	Lead-212	11.4 +- 9.64	11.4	U	EPA 901.1
WW001	2069A	12-Apr-24	Lead-214	2.69 +- 7.05	10.4	U	EPA 901.1
WW001	2069A	12-Apr-24	Neptunium-237	-2.31 +- 4.94	7.94	U	EPA 901.1
WW001	2069A	12-Apr-24	Potassium-40	-23.5 +- 46.4	87.6	U	EPA 901.1
WW001	2069A	12-Apr-24	Radium-223	-10.9 +- 48.6	81.5	U	EPA 901.1
WW001	2069A	12-Apr-24	Radium-224	45.6 +- 46.3	69.7	U	EPA 901.1
WW001	2069A	12-Apr-24	Radium-226	-29 +- 61	101	U	EPA 901.1
WW001	2069A	12-Apr-24	Radium-228	6.64 +- 15.5	19.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	12-Apr-24	Sodium-22	-0.153 +- 2.52	4.77	U	EPA 901.1
WW001	2069A	12-Apr-24	Thorium-227	8.31 +- 17.6	29.5	U	EPA 901.1
WW001	2069A	12-Apr-24	Thorium-231	18.7 +- 39	41.4	U	EPA 901.1
WW001	2069A	12-Apr-24	Thorium-234	-18.7 +- 78.6	127	U	EPA 901.1
WW001	2069A	12-Apr-24	Tritium	60.1 +- 116	199	U	EPA 906.0 Modified
WW001	2069A	12-Apr-24	Uranium-235	-2.68 +- 17.1	25.1	U	EPA 901.1
WW001	2069A	12-Apr-24	Uranium-238	-18.7 +- 78.6	127	U	EPA 901.1
WW006	2069F	09-Apr-24	Actinium-228	9.66 +- 8.25	14	U	EPA 901.1
WW006	2069F	09-Apr-24	Alpha, gross	1.58 +- 1.1	1.69	U	EPA 900.0/SW846 9310
WW006	2069F	09-Apr-24	Americium-241	-1.58 +- 6.86	11.9	U	EPA 901.1
WW006	2069F	09-Apr-24	Beryllium-7	11.2 +- 16.6	29.4	U	EPA 901.1
WW006	2069F	09-Apr-24	Beta, gross	16.7 +- 1.88	2.3	*	EPA 900.0/SW846 9310
WW006	2069F	09-Apr-24	Bismuth-212	20.2 +- 26.1	45.2	U	EPA 901.1
WW006	2069F	09-Apr-24	Bismuth-214	1.86 +- 5.76	6.65	U	EPA 901.1
WW006	2069F	09-Apr-24	Cesium-137	1.66 +- 1.82	3.14	U	EPA 901.1
WW006	2069F	09-Apr-24	Cobalt-60	0.657 +- 1.92	3.59	U	EPA 901.1
WW006	2069F	09-Apr-24	Lead-212	1.07 +- 7.67	7.15	U	EPA 901.1
WW006	2069F	09-Apr-24	Lead-214	-1.6 +- 5.47	6.74	U	EPA 901.1
WW006	2069F	09-Apr-24	Neptunium-237	0.617 +- 2.92	5.31	U	EPA 901.1
WW006	2069F	09-Apr-24	Potassium-40	50.4 +- 51.1	30.6		EPA 901.1
WW006	2069F	09-Apr-24	Radium-223	-41.9 +- 50.1	52.1	U	EPA 901.1
WW006	2069F	09-Apr-24	Radium-224	15.5 +- 31.9	52.4	U	EPA 901.1
WW006	2069F	09-Apr-24	Radium-226	-18.1 +- 60.8	65.1	U	EPA 901.1
WW006	2069F	09-Apr-24	Radium-228	9.66 +- 8.25	14	U	EPA 901.1
WW006	2069F	09-Apr-24	Sodium-22	0.874 +- 1.75	3.31	U	EPA 901.1
WW006	2069F	09-Apr-24	Thorium-227	-7.08 +- 12	20.4	U	EPA 901.1
WW006	2069F	09-Apr-24	Thorium-231	-11.6 +- 31.5	34	U	EPA 901.1
WW006	2069F	09-Apr-24	Thorium-234	-79.3 +- 113	122	U	EPA 901.1
WW006	2069F	09-Apr-24	Tritium	-31.7 +- 111	203	U	EPA 906.0 Modified
WW006	2069F	09-Apr-24	Uranium-235	9.17 +- 19.1	16.1	U	EPA 901.1
WW006	2069F	09-Apr-24	Uranium-238	-79.3 +- 113	122	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	10-Apr-24	Actinium-228	-3.86 +- 9.88	12.5	U	EPA 901.1
WW006	2069F	10-Apr-24	Alpha, gross	1.71 +- .925	1.41	N	EPA 900.0/SW846 9310
WW006	2069F	10-Apr-24	Americium-241	0.838 +- 8.56	14.3	U	EPA 901.1
WW006	2069F	10-Apr-24	Beryllium-7	9.1 +- 25.7	27.1	U	EPA 901.1
WW006	2069F	10-Apr-24	Beta, gross	13.3 +- 1.37	1.52		EPA 900.0/SW846 9310
WW006	2069F	10-Apr-24	Bismuth-212	13.7 +- 22.2	39.1	U	EPA 901.1
WW006	2069F	10-Apr-24	Bismuth-214	-3.33 +- 5.38	6.27	U	EPA 901.1
WW006	2069F	10-Apr-24	Cesium-137	0.292 +- 1.59	2.84	U	EPA 901.1
WW006	2069F	10-Apr-24	Cobalt-60	1.36 +- 2.08	3.06	U	EPA 901.1
WW006	2069F	10-Apr-24	Lead-212	1.36 +- 5.4	5.6	U	EPA 901.1
WW006	2069F	10-Apr-24	Lead-214	-1.74 +- 4.72	5.46	U	EPA 901.1
WW006	2069F	10-Apr-24	Neptunium-237	2.36 +- 2.97	5.23	U	EPA 901.1
WW006	2069F	10-Apr-24	Potassium-40	-6.81 +- 33.6	43.2	U	EPA 901.1
WW006	2069F	10-Apr-24	Radium-223	-5.04 +- 26.7	48	U	EPA 901.1
WW006	2069F	10-Apr-24	Radium-224	5.33 +- 29.8	46.1	U	EPA 901.1
WW006	2069F	10-Apr-24	Radium-226	-64.3 +- 60.4	74.1	U	EPA 901.1
WW006	2069F	10-Apr-24	Radium-228	-3.86 +- 9.88	12.5	U	EPA 901.1
WW006	2069F	10-Apr-24	Sodium-22	1.14 +- 1.69	3.17	U	EPA 901.1
WW006	2069F	10-Apr-24	Thorium-227	-1.91 +- 11.6	19	U	EPA 901.1
WW006	2069F	10-Apr-24	Thorium-231	-15.1 +- 32.9	35.3	U	EPA 901.1
WW006	2069F	10-Apr-24	Thorium-234	64.8 +- 224	115	U	EPA 901.1
WW006	2069F	10-Apr-24	Tritium	-19.1 +- 82.7	169	U	EPA 906.0 Modified
WW006	2069F	10-Apr-24	Uranium-235	4.97 +- 17.5	16.4	U	EPA 901.1
WW006	2069F	10-Apr-24	Uranium-238	64.8 +- 224	115	U	EPA 901.1
WW006	2069F	11-Apr-24	Actinium-228	11.5 +- 13.8	12.1	U	EPA 901.1
WW006	2069F	11-Apr-24	Alpha, gross	1.46 +- 1.86	3.15	UN	EPA 900.0/SW846 9310
WW006	2069F	11-Apr-24	Americium-241	2.61 +- 8.29	13.7	U	EPA 901.1
WW006	2069F	11-Apr-24	Beryllium-7	5.28 +- 16.8	30.3	U	EPA 901.1
WW006	2069F	11-Apr-24	Beta, gross	9.34 +- 2.46	3.66		EPA 900.0/SW846 9310
WW006	2069F	11-Apr-24	Bismuth-212	19.7 +- 29.3	46.4	U	EPA 901.1
WW006	2069F	11-Apr-24	Bismuth-214	-6.5 +- 7.44	7.07	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	11-Apr-24	Cesium-137	0.996 +- 1.82	3.23	U	EPA 901.1
WW006	2069F	11-Apr-24	Cobalt-60	-0.356 +- 2.05	3.25	U	EPA 901.1
WW006	2069F	11-Apr-24	Lead-212	4.34 +- 7.24	6.12	U	EPA 901.1
WW006	2069F	11-Apr-24	Lead-214	-6.52 +- 7.23	6.82	U	EPA 901.1
WW006	2069F	11-Apr-24	Neptunium-237	0.589 +- 3.16	5.76	U	EPA 901.1
WW006	2069F	11-Apr-24	Potassium-40	20.5 +- 44.4	30.4	U	EPA 901.1
WW006	2069F	11-Apr-24	Radium-223	25.5 +- 33.6	58.9	U	EPA 901.1
WW006	2069F	11-Apr-24	Radium-224	9.15 +- 35.6	54.7	U	EPA 901.1
WW006	2069F	11-Apr-24	Radium-226	-50.4 +- 59.6	72.6	U	EPA 901.1
WW006	2069F	11-Apr-24	Radium-228	11.5 +- 13.8	12.1	U	EPA 901.1
WW006	2069F	11-Apr-24	Sodium-22	-1.25 +- 1.56	2.47	U	EPA 901.1
WW006	2069F	11-Apr-24	Thorium-227	-6.15 +- 13.9	21.9	U	EPA 901.1
WW006	2069F	11-Apr-24	Thorium-231	30.3 +- 31.5	33.7	U	EPA 901.1
WW006	2069F	11-Apr-24	Thorium-234	297 +- 234	297	U	EPA 901.1
WW006	2069F	11-Apr-24	Tritium	-22.9 +- 82.3	170	U	EPA 906.0 Modified
WW006	2069F	11-Apr-24	Uranium-235	-12 +- 17.5	18	U	EPA 901.1
WW006	2069F	11-Apr-24	Uranium-238	297 +- 234	297	U	EPA 901.1
WW006	2069F	12-Apr-24	Actinium-228	-11.4 +- 16.1	19.2	U	EPA 901.1
WW006	2069F	12-Apr-24	Alpha, gross	1.6 +- 1.11	1.74	U	EPA 900.0/SW846 9310
WW006	2069F	12-Apr-24	Americium-241	-6.59 +- 12.2	20.4	U	EPA 901.1
WW006	2069F	12-Apr-24	Beryllium-7	-17.2 +- 24.3	38.4	U	EPA 901.1
WW006	2069F	12-Apr-24	Beta, gross	16.8 +- 1.54	1.76		EPA 900.0/SW846 9310
WW006	2069F	12-Apr-24	Bismuth-212	1.63 +- 27.5	50.5	U	EPA 901.1
WW006	2069F	12-Apr-24	Bismuth-214	6.02 +- 9.67	7	U	EPA 901.1
WW006	2069F	12-Apr-24	Cesium-137	-4.1 +- 4.93	5	U	EPA 901.1
WW006	2069F	12-Apr-24	Cobalt-60	-2.52 +- 2.75	4	U	EPA 901.1
WW006	2069F	12-Apr-24	Lead-212	4.97 +- 8.2	7.5	U	EPA 901.1
WW006	2069F	12-Apr-24	Lead-214	-8.77 +- 9.19	8.31	U	EPA 901.1
WW006	2069F	12-Apr-24	Neptunium-237	0.962 +- 3.96	7.08	U	EPA 901.1
WW006	2069F	12-Apr-24	Potassium-40	3.96 +- 62	31.1	U	EPA 901.1
WW006	2069F	12-Apr-24	Radium-223	10.9 +- 38.1	67.9	U	EPA 901.1

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Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	12-Apr-24	Radium-224	49.3 +- 44.1	65.2	U	EPA 901.1
WW006	2069F	12-Apr-24	Radium-226	55 +- 110	64.7	U	EPA 901.1
WW006	2069F	12-Apr-24	Radium-228	-11.4 +- 16.1	19.2	U	EPA 901.1
WW006	2069F	12-Apr-24	Sodium-22	-1.39 +- 2.3	3.72	U	EPA 901.1
WW006	2069F	12-Apr-24	Thorium-227	-0.429 +- 14.5	26.1	U	EPA 901.1
WW006	2069F	12-Apr-24	Thorium-231	6.49 +- 63.7	46.5	U	EPA 901.1
WW006	2069F	12-Apr-24	Thorium-234	-170 +- 206	239	U	EPA 901.1
WW006	2069F	12-Apr-24	Tritium	-9.33 +- 108	195	U	EPA 906.0 Modified
WW006	2069F	12-Apr-24	Uranium-235	11.1 +- 25.6	20.5	U	EPA 901.1
WW006	2069F	12-Apr-24	Uranium-238	-170 +- 206	239	U	EPA 901.1
WW007	2069G	09-Apr-24	Actinium-228	4 +- 19	16.4	U	EPA 901.1
WW007	2069G	09-Apr-24	Alpha, gross	1.36 +- .818	1.23	N	EPA 900.0/SW846 9310
WW007	2069G	09-Apr-24	Americium-241	6.09 +- 12.6	21.3	U	EPA 901.1
WW007	2069G	09-Apr-24	Beryllium-7	-6.28 +- 19.9	33.3	U	EPA 901.1
WW007	2069G	09-Apr-24	Beta, gross	2.85 +- 1.07	1.67		EPA 900.0/SW846 9310
WW007	2069G	09-Apr-24	Bismuth-212	-0.112 +- 24.9	45.4	U	EPA 901.1
WW007	2069G	09-Apr-24	Bismuth-214	-5.12 +- 7.7	8.01	U	EPA 901.1
WW007	2069G	09-Apr-24	Cesium-137	-0.795 +- 1.92	3.35	U	EPA 901.1
WW007	2069G	09-Apr-24	Cobalt-60	0.472 +- 2.43	4.35	U	EPA 901.1
WW007	2069G	09-Apr-24	Lead-212	-4.5 +- 5.98	7.56	U	EPA 901.1
WW007	2069G	09-Apr-24	Lead-214	5.64 +- 8.5	8.17	U	EPA 901.1
WW007	2069G	09-Apr-24	Neptunium-237	1.65 +- 3.79	6.65	U	EPA 901.1
WW007	2069G	09-Apr-24	Potassium-40	30.7 +- 66.3	33	U	EPA 901.1
WW007	2069G	09-Apr-24	Radium-223	-32.6 +- 40.1	62.3	U	EPA 901.1
WW007	2069G	09-Apr-24	Radium-224	-108 +- 63.3	62.2	U	EPA 901.1
WW007	2069G	09-Apr-24	Radium-226	73 +- 102	59.6	X	EPA 901.1
WW007	2069G	09-Apr-24	Radium-228	4 +- 19	16.4	U	EPA 901.1
WW007	2069G	09-Apr-24	Sodium-22	-0.527 +- 1.97	3.41	U	EPA 901.1
WW007	2069G	09-Apr-24	Thorium-227	-21.8 +- 17.7	23.8	U	EPA 901.1
WW007	2069G	09-Apr-24	Thorium-231	1.46 +- 45.6	48.6	U	EPA 901.1
WW007	2069G	09-Apr-24	Thorium-234	-78.5 +- 186	208	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	09-Apr-24	Tritium	-20.6 +- 83.2	171	U	EPA 906.0 Modified
WW007	2069G	09-Apr-24	Uranium-235	3.11 +- 24.6	19.4	U	EPA 901.1
WW007	2069G	09-Apr-24	Uranium-238	-78.5 +- 186	208	U	EPA 901.1
WW007	2069G	10-Apr-24	Actinium-228	4.1 +- 17.2	16.8	U	EPA 901.1
WW007	2069G	10-Apr-24	Alpha, gross	0.75 +- .551	0.866	UN	EPA 900.0/SW846 9310
WW007	2069G	10-Apr-24	Americium-241	4.91 +- 15.3	27.4	U	EPA 901.1
WW007	2069G	10-Apr-24	Beryllium-7	-2.87 +- 18.7	33.2	U	EPA 901.1
WW007	2069G	10-Apr-24	Beta, gross	2.4 +- .707	1.06		EPA 900.0/SW846 9310
WW007	2069G	10-Apr-24	Bismuth-212	-14.9 +- 44.9	50.1	U	EPA 901.1
WW007	2069G	10-Apr-24	Bismuth-214	1.72 +- 9.43	6.4	U	EPA 901.1
WW007	2069G	10-Apr-24	Cesium-137	0.0409 +- 1.89	3.35	U	EPA 901.1
WW007	2069G	10-Apr-24	Cobalt-60	0.148 +- 4.76	4.73	U	EPA 901.1
WW007	2069G	10-Apr-24	Lead-212	4.92 +- 8.27	5.56	U	EPA 901.1
WW007	2069G	10-Apr-24	Lead-214	3.26 +- 8.99	8.28	U	EPA 901.1
WW007	2069G	10-Apr-24	Neptunium-237	-1.64 +- 4.12	6.52	U	EPA 901.1
WW007	2069G	10-Apr-24	Potassium-40	-40.4 +- 52.6	64.8	U	EPA 901.1
WW007	2069G	10-Apr-24	Radium-223	-1 +- 34.4	62.6	U	EPA 901.1
WW007	2069G	10-Apr-24	Radium-224	17 +- 39.9	61.6	U	EPA 901.1
WW007	2069G	10-Apr-24	Radium-226	2.02 +- 99.4	60.6	U	EPA 901.1
WW007	2069G	10-Apr-24	Radium-228	4.1 +- 17.2	16.8	U	EPA 901.1
WW007	2069G	10-Apr-24	Sodium-22	3 +- 2.36	4.11	U	EPA 901.1
WW007	2069G	10-Apr-24	Thorium-227	4.76 +- 15.5	25.9	U	EPA 901.1
WW007	2069G	10-Apr-24	Thorium-231	1.41 +- 62.6	43	U	EPA 901.1
WW007	2069G	10-Apr-24	Thorium-234	-203 +- 224	225	U	EPA 901.1
WW007	2069G	10-Apr-24	Tritium	59 +- 98.4	172	U	EPA 906.0 Modified
WW007	2069G	10-Apr-24	Uranium-235	-11.1 +- 20.8	21.4	U	EPA 901.1
WW007	2069G	10-Apr-24	Uranium-238	-203 +- 224	225	U	EPA 901.1
WW007	2069G	11-Apr-24	Actinium-228	-2.68 +- 11.9	13.8	U	EPA 901.1
WW007	2069G	11-Apr-24	Alpha, gross	1.55 +- .879	1.34	N	EPA 900.0/SW846 9310
WW007	2069G	11-Apr-24	Americium-241	0.378 +- 4.65	8.06	U	EPA 901.1
WW007	2069G	11-Apr-24	Beryllium-7	-1.71 +- 15.2	26.3	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	11-Apr-24	Beta, gross	2.33 +- .815	1.26		EPA 900.0/SW846 9310
WW007	2069G	11-Apr-24	Bismuth-212	8.27 +- 22.7	39.3	U	EPA 901.1
WW007	2069G	11-Apr-24	Bismuth-214	0.355 +- 5.51	6.66	U	EPA 901.1
WW007	2069G	11-Apr-24	Cesium-137	1.73 +- 2.29	3.02	U	EPA 901.1
WW007	2069G	11-Apr-24	Cobalt-60	-2.86 +- 3.09	2.86	U	EPA 901.1
WW007	2069G	11-Apr-24	Lead-212	0.415 +- 5.59	5.63	U	EPA 901.1
WW007	2069G	11-Apr-24	Lead-214	-0.0984 +- 5.78	6.3	U	EPA 901.1
WW007	2069G	11-Apr-24	Neptunium-237	0.0446 +- 2.78	4.95	U	EPA 901.1
WW007	2069G	11-Apr-24	Potassium-40	-22 +- 37.7	45.6	U	EPA 901.1
WW007	2069G	11-Apr-24	Radium-223	2.25 +- 28.4	50.4	U	EPA 901.1
WW007	2069G	11-Apr-24	Radium-224	3.9 +- 30.1	48.8	U	EPA 901.1
WW007	2069G	11-Apr-24	Radium-226	66.5 +- 68.7	44.9	X	EPA 901.1
WW007	2069G	11-Apr-24	Radium-228	-2.68 +- 11.9	13.8	U	EPA 901.1
WW007	2069G	11-Apr-24	Sodium-22	-0.601 +- 1.51	2.59	U	EPA 901.1
WW007	2069G	11-Apr-24	Thorium-227	0.737 +- 10.4	18.7	U	EPA 901.1
WW007	2069G	11-Apr-24	Thorium-231	13.6 +- 33.3	26.8	U	EPA 901.1
WW007	2069G	11-Apr-24	Thorium-234	18.7 +- 73.9	93.2	U	EPA 901.1
WW007	2069G	11-Apr-24	Tritium	-16.4 +- 84.3	172	U	EPA 906.0 Modified
WW007	2069G	11-Apr-24	Uranium-235	3.88 +- 17.3	14.1	U	EPA 901.1
WW007	2069G	11-Apr-24	Uranium-238	18.7 +- 73.9	93.2	U	EPA 901.1
WW007	2069G	12-Apr-24	Actinium-228	-9.99 +- 16.3	16	U	EPA 901.1
WW007	2069G	12-Apr-24	Alpha, gross	1.73 +- .753	0.975		EPA 900.0/SW846 9310
WW007	2069G	12-Apr-24	Americium-241	12.7 +- 18.2	26.6	U	EPA 901.1
WW007	2069G	12-Apr-24	Beryllium-7	-14.6 +- 22.6	36.3	U	EPA 901.1
WW007	2069G	12-Apr-24	Beta, gross	1.7 +- 1.06	1.76	U	EPA 900.0/SW846 9310
WW007	2069G	12-Apr-24	Bismuth-212	23.5 +- 29.6	50.7	U	EPA 901.1
WW007	2069G	12-Apr-24	Bismuth-214	2.11 +- 11	8.71	U	EPA 901.1
WW007	2069G	12-Apr-24	Cesium-137	2.1 +- 2.67	3.71	U	EPA 901.1
WW007	2069G	12-Apr-24	Cobalt-60	2.21 +- 3.17	4.38	U	EPA 901.1
WW007	2069G	12-Apr-24	Lead-212	3.08 +- 7.38	7.02	U	EPA 901.1
WW007	2069G	12-Apr-24	Lead-214	5.16 +- 4.78	7.67	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	12-Apr-24	Neptunium-237	-0.907 +- 3.69	6.38	U	EPA 901.1
WW007	2069G	12-Apr-24	Potassium-40	67 +- 36.4	35.6		EPA 901.1
WW007	2069G	12-Apr-24	Radium-223	-1.79 +- 35.6	62.3	U	EPA 901.1
WW007	2069G	12-Apr-24	Radium-224	40.2 +- 42.2	62	U	EPA 901.1
WW007	2069G	12-Apr-24	Radium-226	65 +- 86.8	57.9		EPA 901.1
WW007	2069G	12-Apr-24	Radium-228	-9.99 +- 16.3	16	U	EPA 901.1
WW007	2069G	12-Apr-24	Sodium-22	-0.716 +- 2.17	3.3	U	EPA 901.1
WW007	2069G	12-Apr-24	Thorium-227	-24.1 +- 18	22.9	U	EPA 901.1
WW007	2069G	12-Apr-24	Thorium-231	32.4 +- 69.2	54.7	U	EPA 901.1
WW007	2069G	12-Apr-24	Thorium-234	-248 +- 301	246	U	EPA 901.1
WW007	2069G	12-Apr-24	Tritium	9.94 +- 109	195	U	EPA 906.0 Modified
WW007	2069G	12-Apr-24	Uranium-235	-7.67 +- 17.6	21.6	U	EPA 901.1
WW007	2069G	12-Apr-24	Uranium-238	-248 +- 301	246	U	EPA 901.1
WW008	2069I	09-Apr-24	Actinium-228	12.2 +- 23.2	20.2	U	EPA 901.1
WW008	2069I	09-Apr-24	Alpha, gross	2.04 +- .735	0.889		EPA 900.0/SW846 9310
WW008	2069I	09-Apr-24	Americium-241	2.61 +- 12	21.1	U	EPA 901.1
WW008	2069I	09-Apr-24	Beryllium-7	7.09 +- 21.6	37.9	U	EPA 901.1
WW008	2069I	09-Apr-24	Beta, gross	13.2 +- 1.44	1.74	*	EPA 900.0/SW846 9310
WW008	2069I	09-Apr-24	Bismuth-212	24.8 +- 32.1	57.1	U	EPA 901.1
WW008	2069I	09-Apr-24	Bismuth-214	1.74 +- 11.4	7.21	U	EPA 901.1
WW008	2069I	09-Apr-24	Cesium-137	0.0553 +- 6.47	3.68	U	EPA 901.1
WW008	2069I	09-Apr-24	Cobalt-60	-1.09 +- 2.16	3.57	U	EPA 901.1
WW008	2069I	09-Apr-24	Lead-212	3.04 +- 8.08	6.17	U	EPA 901.1
WW008	2069I	09-Apr-24	Lead-214	-2.06 +- 7.52	8.7	U	EPA 901.1
WW008	2069I	09-Apr-24	Neptunium-237	0.555 +- 6.15	6.92	U	EPA 901.1
WW008	2069I	09-Apr-24	Potassium-40	47 +- 62.2	36.6		EPA 901.1
WW008	2069I	09-Apr-24	Radium-223	-10.4 +- 38.8	67.7	U	EPA 901.1
WW008	2069I	09-Apr-24	Radium-224	37.7 +- 43.8	67.8	U	EPA 901.1
WW008	2069I	09-Apr-24	Radium-226	45.9 +- 109	64.2	U	EPA 901.1
WW008	2069I	09-Apr-24	Radium-228	12.2 +- 23.2	20.2	U	EPA 901.1
WW008	2069I	09-Apr-24	Sodium-22	-1.58 +- 2.26	3.55	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	09-Apr-24	Thorium-227	-4.61 +- 16	25.3	U	EPA 901.1
WW008	2069I	09-Apr-24	Thorium-231	3.72 +- 62.8	49.6	U	EPA 901.1
WW008	2069I	09-Apr-24	Thorium-234	49.1 +- 189	250	U	EPA 901.1
WW008	2069I	09-Apr-24	Tritium	2.33 +- 113	201	U	EPA 906.0 Modified
WW008	2069I	09-Apr-24	Uranium-235	21.8 +- 26.4	19.8	X	EPA 901.1
WW008	2069I	09-Apr-24	Uranium-238	49.1 +- 189	250	U	EPA 901.1
WW008	2069I	10-Apr-24	Actinium-228	19.6 +- 23.4	19.6	U	EPA 901.1
WW008	2069I	10-Apr-24	Alpha, gross	1.4 +- .561	0.757	N	EPA 900.0/SW846 9310
WW008	2069I	10-Apr-24	Americium-241	7.52 +- 9.23	14.6	U	EPA 901.1
WW008	2069I	10-Apr-24	Beryllium-7	-8.65 +- 18.6	31.7	U	EPA 901.1
WW008	2069I	10-Apr-24	Beta, gross	11.6 +- 1.1	1.12		EPA 900.0/SW846 9310
WW008	2069I	10-Apr-24	Bismuth-212	10.9 +- 28.5	45.4	U	EPA 901.1
WW008	2069I	10-Apr-24	Bismuth-214	-4.23 +- 6.78	7.02	U	EPA 901.1
WW008	2069I	10-Apr-24	Cesium-137	0.904 +- 1.85	3.28	U	EPA 901.1
WW008	2069I	10-Apr-24	Cobalt-60	-0.458 +- 1.67	3.01	U	EPA 901.1
WW008	2069I	10-Apr-24	Lead-212	3.42 +- 8.49	6.01	U	EPA 901.1
WW008	2069I	10-Apr-24	Lead-214	-4.96 +- 7	7.02	U	EPA 901.1
WW008	2069I	10-Apr-24	Neptunium-237	0.65 +- 3.54	5.84	U	EPA 901.1
WW008	2069I	10-Apr-24	Potassium-40	-5.47 +- 37.5	45.9	U	EPA 901.1
WW008	2069I	10-Apr-24	Radium-223	3.49 +- 31.1	56.5	U	EPA 901.1
WW008	2069I	10-Apr-24	Radium-224	22.9 +- 36.9	55.8	U	EPA 901.1
WW008	2069I	10-Apr-24	Radium-226	-103 +- 72.4	70	U	EPA 901.1
WW008	2069I	10-Apr-24	Radium-228	19.6 +- 23.4	19.6	U	EPA 901.1
WW008	2069I	10-Apr-24	Sodium-22	0.371 +- 1.67	3.17	U	EPA 901.1
WW008	2069I	10-Apr-24	Thorium-227	-9.36 +- 14.5	22.1	U	EPA 901.1
WW008	2069I	10-Apr-24	Thorium-231	2.27 +- 19.8	34.6	U	EPA 901.1
WW008	2069I	10-Apr-24	Thorium-234	161 +- 170	161	U	EPA 901.1
WW008	2069I	10-Apr-24	Tritium	-16.5 +- 84	171	U	EPA 906.0 Modified
WW008	2069I	10-Apr-24	Uranium-235	7.33 +- 21.8	18.8	U	EPA 901.1
WW008	2069I	10-Apr-24	Uranium-238	161 +- 170	161	U	EPA 901.1
WW008	2069I	11-Apr-24	Actinium-228	-4.91 +- 13.4	15.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	11-Apr-24	Alpha, gross	2.11 +- .842	1.2	N	EPA 900.0/SW846 9310
WW008	2069I	11-Apr-24	Americium-241	-2.4 +- 17.9	26.5	U	EPA 901.1
WW008	2069I	11-Apr-24	Beryllium-7	0.586 +- 20.2	35.4	U	EPA 901.1
WW008	2069I	11-Apr-24	Beta, gross	10.5 +- 1.1	1.22		EPA 900.0/SW846 9310
WW008	2069I	11-Apr-24	Bismuth-212	18.4 +- 28.5	49.7	U	EPA 901.1
WW008	2069I	11-Apr-24	Bismuth-214	0.813 +- 7.5	8.61	U	EPA 901.1
WW008	2069I	11-Apr-24	Cesium-137	2.4 +- 2.52	4.16	U	EPA 901.1
WW008	2069I	11-Apr-24	Cobalt-60	0.468 +- 2.05	3.82	U	EPA 901.1
WW008	2069I	11-Apr-24	Lead-212	-1.29 +- 5.5	6.73	U	EPA 901.1
WW008	2069I	11-Apr-24	Lead-214	2.43 +- 10.9	8.01	U	EPA 901.1
WW008	2069I	11-Apr-24	Neptunium-237	0.756 +- 3.59	6.34	U	EPA 901.1
WW008	2069I	11-Apr-24	Potassium-40	60.9 +- 51.8	38	X	EPA 901.1
WW008	2069I	11-Apr-24	Radium-223	5.92 +- 36.4	64.2	U	EPA 901.1
WW008	2069I	11-Apr-24	Radium-224	-25.4 +- 38.8	63.6	U	EPA 901.1
WW008	2069I	11-Apr-24	Radium-226	20.1 +- 98.6	60.4	U	EPA 901.1
WW008	2069I	11-Apr-24	Radium-228	-4.91 +- 13.4	15.9	U	EPA 901.1
WW008	2069I	11-Apr-24	Sodium-22	-0.312 +- 2.09	3.77	U	EPA 901.1
WW008	2069I	11-Apr-24	Thorium-227	-5.87 +- 14.5	24.7	U	EPA 901.1
WW008	2069I	11-Apr-24	Thorium-231	-40 +- 51.6	57.7	U	EPA 901.1
WW008	2069I	11-Apr-24	Thorium-234	-189 +- 252	261	U	EPA 901.1
WW008	2069I	11-Apr-24	Tritium	21.5 +- 88.4	166	U	EPA 906.0 Modified
WW008	2069I	11-Apr-24	Uranium-235	22.4 +- 15.1	19.6	X	EPA 901.1
WW008	2069I	11-Apr-24	Uranium-238	-189 +- 252	261	U	EPA 901.1
WW008	2069I	12-Apr-24	Actinium-228	0.396 +- 11.4	20.9	U	EPA 901.1
WW008	2069I	12-Apr-24	Alpha, gross	1.1 +- .605	0.877		EPA 900.0/SW846 9310
WW008	2069I	12-Apr-24	Americium-241	-1.23 +- 7.62	12.3	U	EPA 901.1
WW008	2069I	12-Apr-24	Beryllium-7	-8.37 +- 23.2	41.2	U	EPA 901.1
WW008	2069I	12-Apr-24	Beta, gross	10.3 +- .896	0.996		EPA 900.0/SW846 9310
WW008	2069I	12-Apr-24	Bismuth-212	31.8 +- 40.4	76.8	U	EPA 901.1
WW008	2069I	12-Apr-24	Bismuth-214	-2.89 +- 7.34	11.4	U	EPA 901.1
WW008	2069I	12-Apr-24	Cesium-137	0.0805 +- 2.43	4.57	U	EPA 901.1

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Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	12-Apr-24	Cobalt-60	0.502 +- 2.88	5.82	U	EPA 901.1
WW008	2069I	12-Apr-24	Lead-212	0.715 +- 6.21	10.3	U	EPA 901.1
WW008	2069I	12-Apr-24	Lead-214	-3.68 +- 7.73	9.95	U	EPA 901.1
WW008	2069I	12-Apr-24	Neptunium-237	-2.48 +- 4.83	8.38	U	EPA 901.1
WW008	2069I	12-Apr-24	Potassium-40	2.58 +- 52.2	48.8	U	EPA 901.1
WW008	2069I	12-Apr-24	Radium-223	-17.7 +- 47.7	84.7	U	EPA 901.1
WW008	2069I	12-Apr-24	Radium-224	-74.6 +- 61.1	85.4	U	EPA 901.1
WW008	2069I	12-Apr-24	Radium-226	-71.8 +- 76.4	112	U	EPA 901.1
WW008	2069I	12-Apr-24	Radium-228	0.396 +- 11.4	20.9	U	EPA 901.1
WW008	2069I	12-Apr-24	Sodium-22	-0.955 +- 2.62	4.85	U	EPA 901.1
WW008	2069I	12-Apr-24	Thorium-227	-14.7 +- 18.5	30	U	EPA 901.1
WW008	2069I	12-Apr-24	Thorium-231	-10.4 +- 38.3	54	U	EPA 901.1
WW008	2069I	12-Apr-24	Thorium-234	7.83 +- 132	113	U	EPA 901.1
WW008	2069I	12-Apr-24	Tritium	53.8 +- 114	196	U	EPA 906.0 Modified
WW008	2069I	12-Apr-24	Uranium-235	6.79 +- 23.8	28.3	U	EPA 901.1
WW008	2069I	12-Apr-24	Uranium-238	7.83 +- 132	113	U	EPA 901.1
WW011	2069K	09-Apr-24	Actinium-228	1.23 +- 23.2	20.6	U	EPA 901.1
WW011	2069K	09-Apr-24	Alpha, gross	2.49 +- .912	1.17		EPA 900.0/SW846 9310
WW011	2069K	09-Apr-24	Americium-241	-0.934 +- 12.9	19	U	EPA 901.1
WW011	2069K	09-Apr-24	Beryllium-7	-8.66 +- 31.3	43.2	U	EPA 901.1
WW011	2069K	09-Apr-24	Beta, gross	20.9 +- 1.68	1.81	*	EPA 900.0/SW846 9310
WW011	2069K	09-Apr-24	Bismuth-212	3.73 +- 55.9	59.4	U	EPA 901.1
WW011	2069K	09-Apr-24	Bismuth-214	3.29 +- 7.24	9.83	U	EPA 901.1
WW011	2069K	09-Apr-24	Cesium-137	0.0907 +- 2.47	4.45	U	EPA 901.1
WW011	2069K	09-Apr-24	Cobalt-60	-0.884 +- 3.99	4.5	U	EPA 901.1
WW011	2069K	09-Apr-24	Lead-212	0.461 +- 8.8	9.65	U	EPA 901.1
WW011	2069K	09-Apr-24	Lead-214	3.04 +- 7.48	9.8	U	EPA 901.1
WW011	2069K	09-Apr-24	Neptunium-237	-0.566 +- 5.32	9	U	EPA 901.1
WW011	2069K	09-Apr-24	Potassium-40	91.5 +- 42.7	35.8	X	EPA 901.1
WW011	2069K	09-Apr-24	Radium-223	-17.6 +- 53.8	89.2	U	EPA 901.1
WW011	2069K	09-Apr-24	Radium-224	16.2 +- 62.2	95.3	U	EPA 901.1

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Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	09-Apr-24	Radium-226	-19.5 +- 93.9	134	U	EPA 901.1
WW011	2069K	09-Apr-24	Radium-228	1.23 +- 23.2	20.6	U	EPA 901.1
WW011	2069K	09-Apr-24	Sodium-22	-0.477 +- 2.18	4.01	U	EPA 901.1
WW011	2069K	09-Apr-24	Thorium-227	7.7 +- 22.9	39	U	EPA 901.1
WW011	2069K	09-Apr-24	Thorium-231	7.08 +- 71.7	75.9	U	EPA 901.1
WW011	2069K	09-Apr-24	Thorium-234	86.4 +- 183	173	U	EPA 901.1
WW011	2069K	09-Apr-24	Tritium	-34.8 +- 110	201	U	EPA 906.0 Modified
WW011	2069K	09-Apr-24	Uranium-235	-10.4 +- 26.3	39.8	U	EPA 901.1
WW011	2069K	09-Apr-24	Uranium-238	86.4 +- 183	173	U	EPA 901.1
WW011	2069K	10-Apr-24	Actinium-228	3.94 +- 16.3	11.9	U	EPA 901.1
WW011	2069K	10-Apr-24	Alpha, gross	1.59 +- .705	0.978	N	EPA 900.0/SW846 9310
WW011	2069K	10-Apr-24	Americium-241	-7.92 +- 16.9	27.1	U	EPA 901.1
WW011	2069K	10-Apr-24	Beryllium-7	-4.55 +- 22.6	34	U	EPA 901.1
WW011	2069K	10-Apr-24	Beta, gross	33 +- 1.87	1.63		EPA 900.0/SW846 9310
WW011	2069K	10-Apr-24	Bismuth-212	40 +- 68.2	48.1	U	EPA 901.1
WW011	2069K	10-Apr-24	Bismuth-214	4.17 +- 9.18	6.82	U	EPA 901.1
WW011	2069K	10-Apr-24	Cesium-137	1.66 +- 2.28	3.91	U	EPA 901.1
WW011	2069K	10-Apr-24	Cobalt-60	1.99 +- 3.11	4.12	U	EPA 901.1
WW011	2069K	10-Apr-24	Lead-212	-1.22 +- 5.48	6.69	U	EPA 901.1
WW011	2069K	10-Apr-24	Lead-214	2.68 +- 9.03	7.52	U	EPA 901.1
WW011	2069K	10-Apr-24	Neptunium-237	0.618 +- 3.73	6.57	U	EPA 901.1
WW011	2069K	10-Apr-24	Potassium-40	72.9 +- 50.3	35.2		EPA 901.1
WW011	2069K	10-Apr-24	Radium-223	-1.98 +- 37.1	64.9	U	EPA 901.1
WW011	2069K	10-Apr-24	Radium-224	-22.8 +- 38	62.9	U	EPA 901.1
WW011	2069K	10-Apr-24	Radium-226	8.13 +- 82.3	62	U	EPA 901.1
WW011	2069K	10-Apr-24	Radium-228	3.94 +- 16.3	11.9	U	EPA 901.1
WW011	2069K	10-Apr-24	Sodium-22	-0.946 +- 2.17	3.75	U	EPA 901.1
WW011	2069K	10-Apr-24	Thorium-227	-2.83 +- 13.8	24	U	EPA 901.1
WW011	2069K	10-Apr-24	Thorium-231	-35.9 +- 50.6	57.3	U	EPA 901.1
WW011	2069K	10-Apr-24	Thorium-234	-392 +- 306	251	U	EPA 901.1
WW011	2069K	10-Apr-24	Tritium	18.7 +- 90.3	171	U	EPA 906.0 Modified

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	10-Apr-24	Uranium-235	13.3 +- 16.7	20.8	U	EPA 901.1
WW011	2069K	10-Apr-24	Uranium-238	-392 +- 306	251	U	EPA 901.1
WW011	2069K	11-Apr-24	Actinium-228	-4.94 +- 12.9	16.8	U	EPA 901.1
WW011	2069K	11-Apr-24	Alpha, gross	3.87 +- .981	0.969	N	EPA 900.0/SW846 9310
WW011	2069K	11-Apr-24	Americium-241	4.95 +- 17.5	29.6	U	EPA 901.1
WW011	2069K	11-Apr-24	Beryllium-7	10.2 +- 18.5	33.6	U	EPA 901.1
WW011	2069K	11-Apr-24	Beta, gross	23.1 +- 1.94	1.71		EPA 900.0/SW846 9310
WW011	2069K	11-Apr-24	Bismuth-212	8.85 +- 26.7	48.2	U	EPA 901.1
WW011	2069K	11-Apr-24	Bismuth-214	3.51 +- 8.9	8.57	U	EPA 901.1
WW011	2069K	11-Apr-24	Cesium-137	1.29 +- 2.09	3.74	U	EPA 901.1
WW011	2069K	11-Apr-24	Cobalt-60	-0.324 +- 1.99	3.65	U	EPA 901.1
WW011	2069K	11-Apr-24	Lead-212	2.83 +- 7.92	6.97	U	EPA 901.1
WW011	2069K	11-Apr-24	Lead-214	8.05 +- 10.1	8.53	U	EPA 901.1
WW011	2069K	11-Apr-24	Neptunium-237	4.56 +- 6.65	6.99	U	EPA 901.1
WW011	2069K	11-Apr-24	Potassium-40	31.2 +- 68.8	36.3	U	EPA 901.1
WW011	2069K	11-Apr-24	Radium-223	-5.14 +- 41.6	68.2	U	EPA 901.1
WW011	2069K	11-Apr-24	Radium-224	5.21 +- 37.5	58.7	U	EPA 901.1
WW011	2069K	11-Apr-24	Radium-226	34.9 +- 86.7	62.9	U	EPA 901.1
WW011	2069K	11-Apr-24	Radium-228	-4.94 +- 12.9	16.8	U	EPA 901.1
WW011	2069K	11-Apr-24	Sodium-22	-1.83 +- 2.26	3.54	U	EPA 901.1
WW011	2069K	11-Apr-24	Thorium-227	1.47 +- 15.2	25.6	U	EPA 901.1
WW011	2069K	11-Apr-24	Thorium-231	7.19 +- 27.4	48.8	U	EPA 901.1
WW011	2069K	11-Apr-24	Thorium-234	58.1 +- 248	244	U	EPA 901.1
WW011	2069K	11-Apr-24	Tritium	-19 +- 82.7	169	U	EPA 906.0 Modified
WW011	2069K	11-Apr-24	Uranium-235	0.666 +- 19.1	21.1	U	EPA 901.1
WW011	2069K	11-Apr-24	Uranium-238	58.1 +- 248	244	U	EPA 901.1
WW011	2069K	12-Apr-24	Actinium-228	11.1 +- 18	34.3	U	EPA 901.1
WW011	2069K	12-Apr-24	Alpha, gross	1.05 +- .677	0.994		EPA 900.0/SW846 9310
WW011	2069K	12-Apr-24	Americium-241	-2.23 +- 6.78	9.98	U	EPA 901.1
WW011	2069K	12-Apr-24	Beryllium-7	-3.67 +- 36.6	68.7	U	EPA 901.1
WW011	2069K	12-Apr-24	Beta, gross	18.4 +- 1.32	1.3		EPA 900.0/SW846 9310

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	12-Apr-24	Bismuth-212	57.2 +- 61.1	108	U	EPA 901.1
WW011	2069K	12-Apr-24	Bismuth-214	4.94 +- 8.73	16.5	U	EPA 901.1
WW011	2069K	12-Apr-24	Cesium-137	0.703 +- 3.81	7.33	U	EPA 901.1
WW011	2069K	12-Apr-24	Cobalt-60	-0.191 +- 4.5	8.78	U	EPA 901.1
WW011	2069K	12-Apr-24	Lead-212	4.76 +- 12	12.7	U	EPA 901.1
WW011	2069K	12-Apr-24	Lead-214	2.83 +- 10.1	14.8	U	EPA 901.1
WW011	2069K	12-Apr-24	Neptunium-237	1.12 +- 6.69	12	U	EPA 901.1
WW011	2069K	12-Apr-24	Potassium-40	16.7 +- 93.3	77.7	U	EPA 901.1
WW011	2069K	12-Apr-24	Radium-223	55.2 +- 75.1	132	U	EPA 901.1
WW011	2069K	12-Apr-24	Radium-224	-20.3 +- 69.6	106	U	EPA 901.1
WW011	2069K	12-Apr-24	Radium-226	-52.1 +- 101	167	U	EPA 901.1
WW011	2069K	12-Apr-24	Radium-228	11.1 +- 18	34.3	U	EPA 901.1
WW011	2069K	12-Apr-24	Sodium-22	0.527 +- 4.07	8.24	U	EPA 901.1
WW011	2069K	12-Apr-24	Thorium-227	-8.87 +- 26.7	45.5	U	EPA 901.1
WW011	2069K	12-Apr-24	Thorium-231	5.18 +- 46.6	51	U	EPA 901.1
WW011	2069K	12-Apr-24	Thorium-234	49.1 +- 107	101	U	EPA 901.1
WW011	2069K	12-Apr-24	Tritium	22.8 +- 111	195	U	EPA 906.0 Modified
WW011	2069K	12-Apr-24	Uranium-235	12 +- 28.4	36.7	U	EPA 901.1
WW011	2069K	12-Apr-24	Uranium-238	49.1 +- 107	101	U	EPA 901.1

^a Blank cells indicate that the data did not require a data qualifier.

CINT = Center for Integrated Nanotechnologies

MDA = minimal detectable activity or minimum measured activity in a sample required to ensure a 95 percent probability that the measured activity is accurately quantified above the critical level

Laboratory Data Qualifier

* = A replicate was outside limits.

N = A spike was outside limits.

U = The analyte was absent or below the method detection limit.

X = The data was rejected due to the peak not meeting identification criteria.

Analytical Method

EPA 900.0/SW-846 9310 (EPA 1980) (EPA 1986)

EPA 901.1 (EPA 1980)

EPA 906.0 Modified (EPA 1980)

Table D-4. Radiological results for permitted sanitary outfalls, fourth quarter of calendar year 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	10-Dec-24	Actinium-228	-10 +- 15.2	14.7	U	EPA 901.1
CINT	2238A	10-Dec-24	Alpha, gross	1.74 +- .675	0.843	*	EPA 900.0/SW846 9310
CINT	2238A	10-Dec-24	Americium-241	2.04 +- 3.52	3.6	U	EPA 901.1
CINT	2238A	10-Dec-24	Beryllium-7	2.39 +- 16.4	29.4	U	EPA 901.1
CINT	2238A	10-Dec-24	Beta, gross	1.89 +- 1.15	1.9	U*	EPA 900.0/SW846 9310
CINT	2238A	10-Dec-24	Bismuth-212	41.9 +- 34.5	40.9	X	EPA 901.1
CINT	2238A	10-Dec-24	Bismuth-214	0.461 +- 8.24	7.63	U	EPA 901.1
CINT	2238A	10-Dec-24	Cesium-137	-0.0985 +- 1.86	3.22	U	EPA 901.1
CINT	2238A	10-Dec-24	Cobalt-60	0.456 +- 1.85	3.43	U	EPA 901.1
CINT	2238A	10-Dec-24	Lead-212	6.66 +- 5.1	3.79		EPA 901.1
CINT	2238A	10-Dec-24	Lead-214	1.97 +- 8.17	6.44	U	EPA 901.1
CINT	2238A	10-Dec-24	Neptunium-237	-0.953 +- 3.17	5.07	U	EPA 901.1
CINT	2238A	10-Dec-24	Potassium-40	-10.8 +- 44.3	49.9	U	EPA 901.1
CINT	2238A	10-Dec-24	Radium-223	37 +- 56.5	50.9	U	EPA 901.1
CINT	2238A	10-Dec-24	Radium-224	42.5 +- 36.9	40.6	X	EPA 901.1
CINT	2238A	10-Dec-24	Radium-226	-83.3 +- 75.3	76.4	U	EPA 901.1
CINT	2238A	10-Dec-24	Radium-228	-10 +- 15.2	14.7	U	EPA 901.1
CINT	2238A	10-Dec-24	Sodium-22	-0.582 +- 2	3.49	U	EPA 901.1
CINT	2238A	10-Dec-24	Thorium-227	-7.74 +- 19	17.8	U	EPA 901.1
CINT	2238A	10-Dec-24	Thorium-231	18.8 +- 33.8	19.7	U	EPA 901.1
CINT	2238A	10-Dec-24	Thorium-234	6.07 +- 56.6	36.1	U	EPA 901.1
CINT	2238A	10-Dec-24	Tritium	39.5 +- 133	231	U	EPA 906.0 Modified
CINT	2238A	10-Dec-24	Uranium-235	1.68 +- 17.9	15.7	U	EPA 901.1
CINT	2238A	10-Dec-24	Uranium-238	6.07 +- 56.6	36.1	U	EPA 901.1
CINT	2238A	11-Dec-24	Actinium-228	0.263 +- 13.8	13.9	U	EPA 901.1
CINT	2238A	11-Dec-24	Alpha, gross	2.47 +- .721	0.843	*	EPA 900.0/SW846 9310
CINT	2238A	11-Dec-24	Americium-241	-0.591 +- 4.07	7.12	U	EPA 901.1
CINT	2238A	11-Dec-24	Beryllium-7	-0.00304 +- 15.9	27.9	U	EPA 901.1
CINT	2238A	11-Dec-24	Beta, gross	2.79 +- 1.01	1.61	*	EPA 900.0/SW846 9310
CINT	2238A	11-Dec-24	Bismuth-212	39 +- 28.3	42.2	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	11-Dec-24	Bismuth-214	3.54 +- 6.73	5.72	U	EPA 901.1
CINT	2238A	11-Dec-24	Cesium-137	-1.82 +- 2.57	2.73	U	EPA 901.1
CINT	2238A	11-Dec-24	Cobalt-60	0.397 +- 1.75	3.17	U	EPA 901.1
CINT	2238A	11-Dec-24	Lead-212	-1.07 +- 4.06	5.31	U	EPA 901.1
CINT	2238A	11-Dec-24	Lead-214	1.43 +- 8.07	6.64	U	EPA 901.1
CINT	2238A	11-Dec-24	Neptunium-237	0.374 +- 2.64	4.75	U	EPA 901.1
CINT	2238A	11-Dec-24	Potassium-40	-32.6 +- 34.8	43.7	U	EPA 901.1
CINT	2238A	11-Dec-24	Radium-223	-12.3 +- 29	49.8	U	EPA 901.1
CINT	2238A	11-Dec-24	Radium-224	-48.7 +- 36.5	49	U	EPA 901.1
CINT	2238A	11-Dec-24	Radium-226	-45.4 +- 59.8	67.5	U	EPA 901.1
CINT	2238A	11-Dec-24	Radium-228	0.263 +- 13.8	13.9	U	EPA 901.1
CINT	2238A	11-Dec-24	Sodium-22	-0.0604 +- 1.77	3.15	U	EPA 901.1
CINT	2238A	11-Dec-24	Thorium-227	-11.5 +- 12.2	18.8	U	EPA 901.1
CINT	2238A	11-Dec-24	Thorium-231	-16.4 +- 29	28.2	U	EPA 901.1
CINT	2238A	11-Dec-24	Thorium-234	-30.9 +- 80.4	89.3	U	EPA 901.1
CINT	2238A	11-Dec-24	Tritium	-0.957 +- 134	236	U	EPA 906.0 Modified
CINT	2238A	11-Dec-24	Uranium-235	3.11 +- 21.2	16.1	U	EPA 901.1
CINT	2238A	11-Dec-24	Uranium-238	-30.9 +- 80.4	89.3	U	EPA 901.1
CINT	2238A	12-Dec-24	Actinium-228	6.38 +- 17.2	17.2	U	EPA 901.1
CINT	2238A	12-Dec-24	Alpha, gross	3.43 +- 3.13	5.11	U	EPA 900.0/SW846 9310
CINT	2238A	12-Dec-24	Americium-241	6.69 +- 9.19	16.2	U	EPA 901.1
CINT	2238A	12-Dec-24	Beryllium-7	8.08 +- 19.5	34.7	U	EPA 901.1
CINT	2238A	12-Dec-24	Beta, gross	7.57 +- 2.93	4.54		EPA 900.0/SW846 9310
CINT	2238A	12-Dec-24	Bismuth-212	15.4 +- 27.9	51.5	U	EPA 901.1
CINT	2238A	12-Dec-24	Bismuth-214	3.73 +- 9.02	7.15	U	EPA 901.1
CINT	2238A	12-Dec-24	Cesium-137	-0.0726 +- 1.93	3.33	U	EPA 901.1
CINT	2238A	12-Dec-24	Cobalt-60	0.387 +- 2.2	3.99	U	EPA 901.1
CINT	2238A	12-Dec-24	Lead-212	-2.2 +- 6.02	6.49	U	EPA 901.1
CINT	2238A	12-Dec-24	Lead-214	-1.84 +- 7.59	7.93	U	EPA 901.1
CINT	2238A	12-Dec-24	Neptunium-237	-3.1 +- 3.59	5.69	U	EPA 901.1
CINT	2238A	12-Dec-24	Potassium-40	56.6 +- 43.4	30.7		EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	12-Dec-24	Radium-223	-14.5 +- 32.8	56.8	U	EPA 901.1
CINT	2238A	12-Dec-24	Radium-224	-42.2 +- 41.8	57.8	U	EPA 901.1
CINT	2238A	12-Dec-24	Radium-226	-57 +- 67.3	76.1	U	EPA 901.1
CINT	2238A	12-Dec-24	Radium-228	6.38 +- 17.2	17.2	U	EPA 901.1
CINT	2238A	12-Dec-24	Sodium-22	0.143 +- 2.39	3.79	U	EPA 901.1
CINT	2238A	12-Dec-24	Thorium-227	5.68 +- 14.2	23.6	U	EPA 901.1
CINT	2238A	12-Dec-24	Thorium-231	-1.26 +- 31.1	36.8	U	EPA 901.1
CINT	2238A	12-Dec-24	Thorium-234	-86.4 +- 160	158	U	EPA 901.1
CINT	2238A	12-Dec-24	Tritium	75.3 +- 102	171	U	EPA 906.0 Modified
CINT	2238A	12-Dec-24	Uranium-235	-9.33 +- 16.7	17.2	U	EPA 901.1
CINT	2238A	12-Dec-24	Uranium-238	-86.4 +- 160	158	U	EPA 901.1
CINT	2238A	13-Dec-24	Actinium-228	2.2 +- 16.2	17	U	EPA 901.1
CINT	2238A	13-Dec-24	Alpha, gross	1.49 +- .777	1.16		EPA 900.0/SW846 9310
CINT	2238A	13-Dec-24	Americium-241	16.3 +- 17.7	27.7	U	EPA 901.1
CINT	2238A	13-Dec-24	Beryllium-7	-0.282 +- 19.9	35.6	U	EPA 901.1
CINT	2238A	13-Dec-24	Beta, gross	2.75 +- .55	0.749		EPA 900.0/SW846 9310
CINT	2238A	13-Dec-24	Bismuth-212	-27 +- 41.1	51.9	U	EPA 901.1
CINT	2238A	13-Dec-24	Bismuth-214	5.32 +- 10.3	6.49	U	EPA 901.1
CINT	2238A	13-Dec-24	Cesium-137	0.00942 +- 1.85	3.3	U	EPA 901.1
CINT	2238A	13-Dec-24	Cobalt-60	2.8 +- 5.13	5.15	U	EPA 901.1
CINT	2238A	13-Dec-24	Lead-212	-5.76 +- 6.86	7.06	U	EPA 901.1
CINT	2238A	13-Dec-24	Lead-214	3.92 +- 11.1	8.76	U	EPA 901.1
CINT	2238A	13-Dec-24	Neptunium-237	2.72 +- 4.3	6.97	U	EPA 901.1
CINT	2238A	13-Dec-24	Potassium-40	27.3 +- 48.7	37.4	U	EPA 901.1
CINT	2238A	13-Dec-24	Radium-223	-22.1 +- 38	64.6	U	EPA 901.1
CINT	2238A	13-Dec-24	Radium-224	-33.5 +- 42.9	63.5	U	EPA 901.1
CINT	2238A	13-Dec-24	Radium-226	-121 +- 100	78.7	U	EPA 901.1
CINT	2238A	13-Dec-24	Radium-228	2.2 +- 16.2	17	U	EPA 901.1
CINT	2238A	13-Dec-24	Sodium-22	1.66 +- 2.1	3.96	U	EPA 901.1
CINT	2238A	13-Dec-24	Thorium-227	-1.1 +- 16	26.2	U	EPA 901.1
CINT	2238A	13-Dec-24	Thorium-231	37.9 +- 37.8	46.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
CINT	2238A	13-Dec-24	Thorium-234	232 +- 293	235	U	EPA 901.1
CINT	2238A	13-Dec-24	Tritium	53 +- 98.5	169	U	EPA 906.0 Modified
CINT	2238A	13-Dec-24	Uranium-235	2.99 +- 22	21.5	U	EPA 901.1
CINT	2238A	13-Dec-24	Uranium-238	232 +- 293	235	U	EPA 901.1
WW001	2069A	10-Dec-24	Actinium-228	-14 +- 20.3	20.3	U	EPA 901.1
WW001	2069A	10-Dec-24	Alpha, gross	3.11 +- 1.65	2.51	*	EPA 900.0/SW846 9310
WW001	2069A	10-Dec-24	Americium-241	-1.4 +- 2.71	4.43	U	EPA 901.1
WW001	2069A	10-Dec-24	Beryllium-7	15.8 +- 24.1	40.7	U	EPA 901.1
WW001	2069A	10-Dec-24	Beta, gross	10.4 +- 1.72	2.43	*	EPA 900.0/SW846 9310
WW001	2069A	10-Dec-24	Bismuth-212	0.137 +- 57.9	61.5	U	EPA 901.1
WW001	2069A	10-Dec-24	Bismuth-214	7.76 +- 11.2	7.7		EPA 901.1
WW001	2069A	10-Dec-24	Cesium-137	1.4 +- 2.55	4.57	U	EPA 901.1
WW001	2069A	10-Dec-24	Cobalt-60	-2.33 +- 2.8	4.37	U	EPA 901.1
WW001	2069A	10-Dec-24	Lead-212	1.91 +- 7.25	6.81	U	EPA 901.1
WW001	2069A	10-Dec-24	Lead-214	2.17 +- 10.6	9.18	U	EPA 901.1
WW001	2069A	10-Dec-24	Neptunium-237	0.973 +- 3.96	6.92	U	EPA 901.1
WW001	2069A	10-Dec-24	Potassium-40	55 +- 84.2	40.6		EPA 901.1
WW001	2069A	10-Dec-24	Radium-223	16.9 +- 41	71	U	EPA 901.1
WW001	2069A	10-Dec-24	Radium-224	31.2 +- 41.5	63.8	U	EPA 901.1
WW001	2069A	10-Dec-24	Radium-226	-56.6 +- 75.5	77.2	U	EPA 901.1
WW001	2069A	10-Dec-24	Radium-228	-14 +- 20.3	20.3	U	EPA 901.1
WW001	2069A	10-Dec-24	Sodium-22	-1.38 +- 2.5	4.26	U	EPA 901.1
WW001	2069A	10-Dec-24	Thorium-227	-9.8 +- 15.2	24.9	U	EPA 901.1
WW001	2069A	10-Dec-24	Thorium-231	11.3 +- 35.9	26	U	EPA 901.1
WW001	2069A	10-Dec-24	Thorium-234	-5.59 +- 58.6	67.2	U	EPA 901.1
WW001	2069A	10-Dec-24	Tritium	-77.3 +- 129	235	U	EPA 906.0 Modified
WW001	2069A	10-Dec-24	Uranium-235	12.7 +- 22.6	18.3	U	EPA 901.1
WW001	2069A	10-Dec-24	Uranium-238	-5.59 +- 58.6	67.2	U	EPA 901.1
WW001	2069A	11-Dec-24	Actinium-228	-14.1 +- 18.2	13.6	U	EPA 901.1
WW001	2069A	11-Dec-24	Alpha, gross	2.04 +- 1.03	1.52	*	EPA 900.0/SW846 9310
WW001	2069A	11-Dec-24	Americium-241	2.84 +- 11.7	19.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	11-Dec-24	Beryllium-7	-4.21 +- 16.1	28.5	U	EPA 901.1
WW001	2069A	11-Dec-24	Beta, gross	15.1 +- 1.58	1.85	*	EPA 900.0/SW846 9310
WW001	2069A	11-Dec-24	Bismuth-212	18.9 +- 25.3	43.5	U	EPA 901.1
WW001	2069A	11-Dec-24	Bismuth-214	9.28 +- 8.18	9.28	U	EPA 901.1
WW001	2069A	11-Dec-24	Cesium-137	0.103 +- 1.8	3.16	U	EPA 901.1
WW001	2069A	11-Dec-24	Cobalt-60	0.741 +- 2.08	3.87	U	EPA 901.1
WW001	2069A	11-Dec-24	Lead-212	1.64 +- 7.37	6.03	U	EPA 901.1
WW001	2069A	11-Dec-24	Lead-214	-1.91 +- 6.36	6.44	U	EPA 901.1
WW001	2069A	11-Dec-24	Neptunium-237	1.76 +- 3.17	5.45	U	EPA 901.1
WW001	2069A	11-Dec-24	Potassium-40	-10.7 +- 49.9	52.4	U	EPA 901.1
WW001	2069A	11-Dec-24	Radium-223	-41.8 +- 66.4	50.2	U	EPA 901.1
WW001	2069A	11-Dec-24	Radium-224	-25.1 +- 50.1	47.6	U	EPA 901.1
WW001	2069A	11-Dec-24	Radium-226	47.9 +- 73.6	46.5	X	EPA 901.1
WW001	2069A	11-Dec-24	Radium-228	-14.1 +- 18.2	13.6	U	EPA 901.1
WW001	2069A	11-Dec-24	Sodium-22	-0.183 +- 1.82	3.19	U	EPA 901.1
WW001	2069A	11-Dec-24	Thorium-227	2.17 +- 11.6	20.5	U	EPA 901.1
WW001	2069A	11-Dec-24	Thorium-231	-9.58 +- 42.4	38.3	U	EPA 901.1
WW001	2069A	11-Dec-24	Thorium-234	-120 +- 189	177	U	EPA 901.1
WW001	2069A	11-Dec-24	Tritium	39.8 +- 133	230	U	EPA 906.0 Modified
WW001	2069A	11-Dec-24	Uranium-235	-24.1 +- 18.4	15.3	U	EPA 901.1
WW001	2069A	11-Dec-24	Uranium-238	-120 +- 189	177	U	EPA 901.1
WW001	2069A	12-Dec-24	Actinium-228	2.09 +- 13.3	14	U	EPA 901.1
WW001	2069A	12-Dec-24	Alpha, gross	1.66 +- 1.47	2.4	U	EPA 900.0/SW846 9310
WW001	2069A	12-Dec-24	Americium-241	14.3 +- 15.1	23.7	U	EPA 901.1
WW001	2069A	12-Dec-24	Beryllium-7	5.39 +- 15.2	27.8	U	EPA 901.1
WW001	2069A	12-Dec-24	Beta, gross	6 +- 1.24	1.63		EPA 900.0/SW846 9310
WW001	2069A	12-Dec-24	Bismuth-212	13.1 +- 24.1	43	U	EPA 901.1
WW001	2069A	12-Dec-24	Bismuth-214	12.5 +- 5.84	5.2		EPA 901.1
WW001	2069A	12-Dec-24	Cesium-137	-0.377 +- 1.68	2.92	U	EPA 901.1
WW001	2069A	12-Dec-24	Cobalt-60	0.0713 +- 1.61	3.05	U	EPA 901.1
WW001	2069A	12-Dec-24	Lead-212	2.33 +- 5.48	5.91	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	12-Dec-24	Lead-214	-2.59 +- 6.38	6.74	U	EPA 901.1
WW001	2069A	12-Dec-24	Neptunium-237	-1.02 +- 2.82	5.01	U	EPA 901.1
WW001	2069A	12-Dec-24	Potassium-40	30 +- 45.8	25.7		EPA 901.1
WW001	2069A	12-Dec-24	Radium-223	-3.37 +- 28.7	52.1	U	EPA 901.1
WW001	2069A	12-Dec-24	Radium-224	-14.2 +- 34.6	50.8	U	EPA 901.1
WW001	2069A	12-Dec-24	Radium-226	21.3 +- 74.7	51.9	U	EPA 901.1
WW001	2069A	12-Dec-24	Radium-228	2.09 +- 13.3	14	U	EPA 901.1
WW001	2069A	12-Dec-24	Sodium-22	0.271 +- 1.56	2.99	U	EPA 901.1
WW001	2069A	12-Dec-24	Thorium-227	0.747 +- 12.4	20.8	U	EPA 901.1
WW001	2069A	12-Dec-24	Thorium-231	9.77 +- 23.7	41.5	U	EPA 901.1
WW001	2069A	12-Dec-24	Thorium-234	218 +- 221	164	X	EPA 901.1
WW001	2069A	12-Dec-24	Tritium	-47.7 +- 91.6	171	U	EPA 906.0 Modified
WW001	2069A	12-Dec-24	Uranium-235	7.85 +- 19	15.9	U	EPA 901.1
WW001	2069A	12-Dec-24	Uranium-238	218 +- 221	164	X	EPA 901.1
WW001	2069A	13-Dec-24	Actinium-228	-13 +- 16.2	16.8	U	EPA 901.1
WW001	2069A	13-Dec-24	Alpha, gross	3.28 +- 2.49	4	U	EPA 900.0/SW846 9310
WW001	2069A	13-Dec-24	Americium-241	-0.72 +- 2.5	4.15	U	EPA 901.1
WW001	2069A	13-Dec-24	Beryllium-7	-4.36 +- 18.9	33.3	U	EPA 901.1
WW001	2069A	13-Dec-24	Beta, gross	9.78 +- 1.77	2.32		EPA 900.0/SW846 9310
WW001	2069A	13-Dec-24	Bismuth-212	13 +- 30.7	54.4	U	EPA 901.1
WW001	2069A	13-Dec-24	Bismuth-214	11.7 +- 11	11.7	U	EPA 901.1
WW001	2069A	13-Dec-24	Cesium-137	-1.67 +- 2.3	3.59	U	EPA 901.1
WW001	2069A	13-Dec-24	Cobalt-60	1.22 +- 2.21	4.19	U	EPA 901.1
WW001	2069A	13-Dec-24	Lead-212	1.24 +- 7.27	4.7	U	EPA 901.1
WW001	2069A	13-Dec-24	Lead-214	4.24 +- 10.1	6.68	U	EPA 901.1
WW001	2069A	13-Dec-24	Neptunium-237	2.18 +- 3.59	5.94	U	EPA 901.1
WW001	2069A	13-Dec-24	Potassium-40	35.2 +- 46.5	28.1		EPA 901.1
WW001	2069A	13-Dec-24	Radium-223	10.5 +- 32.5	59.8	U	EPA 901.1
WW001	2069A	13-Dec-24	Radium-224	6.42 +- 33	51.6	U	EPA 901.1
WW001	2069A	13-Dec-24	Radium-226	-87.5 +- 79.5	89.9	U	EPA 901.1
WW001	2069A	13-Dec-24	Radium-228	-13 +- 16.2	16.8	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW001	2069A	13-Dec-24	Sodium-22	0.288 +- 2.21	4.13	U	EPA 901.1
WW001	2069A	13-Dec-24	Thorium-227	-17.2 +- 21.6	20.8	U	EPA 901.1
WW001	2069A	13-Dec-24	Thorium-231	38.1 +- 35.5	23.1	X	EPA 901.1
WW001	2069A	13-Dec-24	Thorium-234	10.4 +- 68.7	40.4	U	EPA 901.1
WW001	2069A	13-Dec-24	Tritium	25.6 +- 96.6	170	U	EPA 906.0 Modified
WW001	2069A	13-Dec-24	Uranium-235	-8.38 +- 17.5	17.9	U	EPA 901.1
WW001	2069A	13-Dec-24	Uranium-238	10.4 +- 68.7	40.4	U	EPA 901.1
WW006	2069F	10-Dec-24	Actinium-228	14.3 +- 9.4	8.3		EPA 901.1
WW006	2069F	10-Dec-24	Alpha, gross	2.81 +- 1.04	1.48	*	EPA 900.0/SW846 9310
WW006	2069F	10-Dec-24	Americium-241	0.961 +- 3.45	5.58	U	EPA 901.1
WW006	2069F	10-Dec-24	Beryllium-7	-3.11 +- 12.5	21.7	U	EPA 901.1
WW006	2069F	10-Dec-24	Beta, gross	11.7 +- 1.48	1.89	*	EPA 900.0/SW846 9310
WW006	2069F	10-Dec-24	Bismuth-212	6.15 +- 49	30.7	U	EPA 901.1
WW006	2069F	10-Dec-24	Bismuth-214	0.703 +- 6.8	6.23	U	EPA 901.1
WW006	2069F	10-Dec-24	Cesium-137	-0.337 +- 1.32	2.24	U	EPA 901.1
WW006	2069F	10-Dec-24	Cobalt-60	-0.536 +- 1.39	2.4	U	EPA 901.1
WW006	2069F	10-Dec-24	Lead-212	0.872 +- 4.94	4.91	U	EPA 901.1
WW006	2069F	10-Dec-24	Lead-214	-4.52 +- 5.8	5.32	U	EPA 901.1
WW006	2069F	10-Dec-24	Neptunium-237	0.951 +- 2.27	4.08	U	EPA 901.1
WW006	2069F	10-Dec-24	Potassium-40	-0.989 +- 38.8	42.2	U	EPA 901.1
WW006	2069F	10-Dec-24	Radium-223	-2.98 +- 22.4	39.9	U	EPA 901.1
WW006	2069F	10-Dec-24	Radium-224	-6.54 +- 24.4	35.8	U	EPA 901.1
WW006	2069F	10-Dec-24	Radium-226	23.2 +- 59.7	38.5	U	EPA 901.1
WW006	2069F	10-Dec-24	Radium-228	14.3 +- 9.4	8.3		EPA 901.1
WW006	2069F	10-Dec-24	Radium-228	25.9 +- 18.6	26	U	EPA 901.1
WW006	2069F	10-Dec-24	Sodium-22	0.32 +- 1.17	2.2	U	EPA 901.1
WW006	2069F	10-Dec-24	Thorium-227	-3.01 +- 8.83	15.6	U	EPA 901.1
WW006	2069F	10-Dec-24	Thorium-231	-15.5 +- 26	24.5	U	EPA 901.1
WW006	2069F	10-Dec-24	Thorium-234	0.893 +- 71.6	62.4	U	EPA 901.1
WW006	2069F	10-Dec-24	Tritium	11.3 +- 133	233	U	EPA 906.0 Modified
WW006	2069F	10-Dec-24	Uranium-235	2.87 +- 14.7	11.7	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	10-Dec-24	Uranium-238	0.893 +- 71.6	62.4	U	EPA 901.1
WW006	2069F	11-Dec-24	Actinium-228	-6 +- 11.7	11.4	U	EPA 901.1
WW006	2069F	11-Dec-24	Alpha, gross	0.665 +- 1.07	1.81	U*	EPA 900.0/SW846 9310
WW006	2069F	11-Dec-24	Americium-241	2.08 +- 4.25	6.91	U	EPA 901.1
WW006	2069F	11-Dec-24	Beryllium-7	2.27 +- 15.7	28.4	U	EPA 901.1
WW006	2069F	11-Dec-24	Beta, gross	18.2 +- 1.71	1.96	*	EPA 900.0/SW846 9310
WW006	2069F	11-Dec-24	Bismuth-212	10 +- 40.7	42.2	U	EPA 901.1
WW006	2069F	11-Dec-24	Bismuth-214	6.38 +- 7.71	5.05		EPA 901.1
WW006	2069F	11-Dec-24	Cesium-137	-0.998 +- 1.61	2.61	U	EPA 901.1
WW006	2069F	11-Dec-24	Cobalt-60	0.612 +- 1.47	2.86	U	EPA 901.1
WW006	2069F	11-Dec-24	Lead-212	-1.84 +- 4.98	5.81	U	EPA 901.1
WW006	2069F	11-Dec-24	Lead-214	3.23 +- 7.62	5.17	U	EPA 901.1
WW006	2069F	11-Dec-24	Neptunium-237	0.441 +- 2.57	4.7	U	EPA 901.1
WW006	2069F	11-Dec-24	Potassium-40	60.9 +- 46.1	27.4		EPA 901.1
WW006	2069F	11-Dec-24	Radium-223	21.1 +- 35	46.9	U	EPA 901.1
WW006	2069F	11-Dec-24	Radium-224	-90.8 +- 60.2	44.4	U	EPA 901.1
WW006	2069F	11-Dec-24	Radium-226	-42.1 +- 61.2	63.7	U	EPA 901.1
WW006	2069F	11-Dec-24	Radium-228	-6 +- 11.7	11.4	U	EPA 901.1
WW006	2069F	11-Dec-24	Sodium-22	0.184 +- 1.43	2.74	U	EPA 901.1
WW006	2069F	11-Dec-24	Thorium-227	-7.38 +- 12.3	17.2	U	EPA 901.1
WW006	2069F	11-Dec-24	Thorium-231	10.5 +- 33.9	24.8	U	EPA 901.1
WW006	2069F	11-Dec-24	Thorium-234	18.9 +- 84.2	57.6	U	EPA 901.1
WW006	2069F	11-Dec-24	Tritium	-21.4 +- 126	225	U	EPA 906.0 Modified
WW006	2069F	11-Dec-24	Uranium-235	0.789 +- 13.6	14.9	U	EPA 901.1
WW006	2069F	11-Dec-24	Uranium-238	18.9 +- 84.2	57.6	U	EPA 901.1
WW006	2069F	12-Dec-24	Actinium-228	-4.93 +- 18.2	18.6	U	EPA 901.1
WW006	2069F	12-Dec-24	Alpha, gross	2.21 +- 1.21	1.77		EPA 900.0/SW846 9310
WW006	2069F	12-Dec-24	Americium-241	7.98 +- 11.3	19.4	U	EPA 901.1
WW006	2069F	12-Dec-24	Beryllium-7	3.5 +- 20.4	36	U	EPA 901.1
WW006	2069F	12-Dec-24	Beta, gross	15.4 +- 1.96	2.46		EPA 900.0/SW846 9310
WW006	2069F	12-Dec-24	Bismuth-212	13.5 +- 28.8	49.9	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	12-Dec-24	Bismuth-214	7.69 +- 10.5	6.95		EPA 901.1
WW006	2069F	12-Dec-24	Cesium-137	-3.51 +- 4.49	4.44	U	EPA 901.1
WW006	2069F	12-Dec-24	Cobalt-60	-2.1 +- 2.42	3.6	U	EPA 901.1
WW006	2069F	12-Dec-24	Lead-212	1.51 +- 6.77	6.76	U	EPA 901.1
WW006	2069F	12-Dec-24	Lead-214	1.85 +- 6.94	8.48	U	EPA 901.1
WW006	2069F	12-Dec-24	Neptunium-237	1.12 +- 3.41	6.15	U	EPA 901.1
WW006	2069F	12-Dec-24	Potassium-40	-31.8 +- 47.2	65.4	U	EPA 901.1
WW006	2069F	12-Dec-24	Radium-223	-21.3 +- 36.8	61.8	U	EPA 901.1
WW006	2069F	12-Dec-24	Radium-224	25.5 +- 41	61.3	U	EPA 901.1
WW006	2069F	12-Dec-24	Radium-226	-81.4 +- 94.5	105	U	EPA 901.1
WW006	2069F	12-Dec-24	Radium-228	-4.93 +- 18.2	18.6	U	EPA 901.1
WW006	2069F	12-Dec-24	Sodium-22	-1.47 +- 2.18	3.46	U	EPA 901.1
WW006	2069F	12-Dec-24	Thorium-227	-4.89 +- 13.6	24	U	EPA 901.1
WW006	2069F	12-Dec-24	Thorium-231	-25.7 +- 47.3	53.4	U	EPA 901.1
WW006	2069F	12-Dec-24	Thorium-234	-51 +- 182	231	U	EPA 901.1
WW006	2069F	12-Dec-24	Tritium	17.7 +- 96.2	170	U	EPA 906.0 Modified
WW006	2069F	12-Dec-24	Uranium-235	-9.34 +- 20.6	22.5	U	EPA 901.1
WW006	2069F	12-Dec-24	Uranium-238	-51 +- 182	231	U	EPA 901.1
WW006	2069F	13-Dec-24	Actinium-228	-2.12 +- 11.5	14.7	U	EPA 901.1
WW006	2069F	13-Dec-24	Alpha, gross	1.31 +- 1.64	2.78	U	EPA 900.0/SW846 9310
WW006	2069F	13-Dec-24	Americium-241	-4.16 +- 6.83	11.3	U	EPA 901.1
WW006	2069F	13-Dec-24	Beryllium-7	-0.497 +- 15.8	28.1	U	EPA 901.1
WW006	2069F	13-Dec-24	Beta, gross	19.3 +- 2.1	2.17		EPA 900.0/SW846 9310
WW006	2069F	13-Dec-24	Bismuth-212	-4.53 +- 24.2	41.4	U	EPA 901.1
WW006	2069F	13-Dec-24	Bismuth-214	3.74 +- 7.33	7.72	U	EPA 901.1
WW006	2069F	13-Dec-24	Cesium-137	0.332 +- 1.76	3.12	U	EPA 901.1
WW006	2069F	13-Dec-24	Cobalt-60	-0.425 +- 1.82	3.24	U	EPA 901.1
WW006	2069F	13-Dec-24	Lead-212	-7.44 +- 5.87	6.51	U	EPA 901.1
WW006	2069F	13-Dec-24	Lead-214	3.14 +- 6.87	5.91	U	EPA 901.1
WW006	2069F	13-Dec-24	Neptunium-237	-0.064 +- 2.92	5.29	U	EPA 901.1
WW006	2069F	13-Dec-24	Potassium-40	-14.5 +- 40	55.3	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW006	2069F	13-Dec-24	Radium-223	4.48 +- 29.1	52.9	U	EPA 901.1
WW006	2069F	13-Dec-24	Radium-224	-182 +- 97.4	49.7	U	EPA 901.1
WW006	2069F	13-Dec-24	Radium-226	-39.2 +- 65.7	64.4	U	EPA 901.1
WW006	2069F	13-Dec-24	Radium-228	-2.12 +- 11.5	14.7	U	EPA 901.1
WW006	2069F	13-Dec-24	Sodium-22	-0.995 +- 1.73	2.87	U	EPA 901.1
WW006	2069F	13-Dec-24	Thorium-227	0.925 +- 11.8	19.6	U	EPA 901.1
WW006	2069F	13-Dec-24	Thorium-231	-0.109 +- 32	33.8	U	EPA 901.1
WW006	2069F	13-Dec-24	Thorium-234	-116 +- 128	124	U	EPA 901.1
WW006	2069F	13-Dec-24	Tritium	80.9 +- 98.5	164	U	EPA 906.0 Modified
WW006	2069F	13-Dec-24	Uranium-235	-10.9 +- 15.5	15.1	U	EPA 901.1
WW006	2069F	13-Dec-24	Uranium-238	-116 +- 128	124	U	EPA 901.1
WW007	2069G	10-Dec-24	Actinium-228	-16.3 +- 13.4	10.3	U	EPA 901.1
WW007	2069G	10-Dec-24	Alpha, gross	0.966 +- .861	1.4	U*	EPA 900.0/SW846 9310
WW007	2069G	10-Dec-24	Americium-241	5.57 +- 7.68	12.3	U	EPA 901.1
WW007	2069G	10-Dec-24	Beryllium-7	4.8 +- 12.1	21.6	U	EPA 901.1
WW007	2069G	10-Dec-24	Beta, gross	2.43 +- 1.42	2.33	*	EPA 900.0/SW846 9310
WW007	2069G	10-Dec-24	Bismuth-212	29.9 +- 33.9	28.4		EPA 901.1
WW007	2069G	10-Dec-24	Bismuth-214	0.704 +- 7.15	5.52	U	EPA 901.1
WW007	2069G	10-Dec-24	Cesium-137	-1.06 +- 1.42	2.23	U	EPA 901.1
WW007	2069G	10-Dec-24	Cobalt-60	0.569 +- 1.26	2.36	U	EPA 901.1
WW007	2069G	10-Dec-24	Lead-212	-0.822 +- 4.09	4.7	U	EPA 901.1
WW007	2069G	10-Dec-24	Lead-214	4.08 +- 8.55	5.18	U	EPA 901.1
WW007	2069G	10-Dec-24	Neptunium-237	0.417 +- 2.25	4.11	U	EPA 901.1
WW007	2069G	10-Dec-24	Potassium-40	-19 +- 31.8	38.3	U	EPA 901.1
WW007	2069G	10-Dec-24	Radium-223	1.44 +- 23.2	42.1	U	EPA 901.1
WW007	2069G	10-Dec-24	Radium-224	-76.9 +- 50.9	38.2	U	EPA 901.1
WW007	2069G	10-Dec-24	Radium-226	-74.5 +- 66.7	63.5	U	EPA 901.1
WW007	2069G	10-Dec-24	Radium-228	-16.3 +- 13.4	10.3	U	EPA 901.1
WW007	2069G	10-Dec-24	Sodium-22	-1.7 +- 1.42	1.88	U	EPA 901.1
WW007	2069G	10-Dec-24	Thorium-227	1.54 +- 9.57	15.9	U	EPA 901.1
WW007	2069G	10-Dec-24	Thorium-231	13.4 +- 43.7	27.8	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	10-Dec-24	Thorium-234	2.4 +- 118	95.6	U	EPA 901.1
WW007	2069G	10-Dec-24	Tritium	-135 +- 128	238	U	EPA 906.0 Modified
WW007	2069G	10-Dec-24	Uranium-235	-6.86 +- 14.6	14.2	U	EPA 901.1
WW007	2069G	10-Dec-24	Uranium-238	2.4 +- 118	95.6	U	EPA 901.1
WW007	2069G	11-Dec-24	Actinium-228	-7.92 +- 12	12.8	U	EPA 901.1
WW007	2069G	11-Dec-24	Alpha, gross	1.5 +- .791	1.19	*	EPA 900.0/SW846 9310
WW007	2069G	11-Dec-24	Americium-241	4.84 +- 5.84	9.05	U	EPA 901.1
WW007	2069G	11-Dec-24	Beryllium-7	6.04 +- 15.3	27.3	U	EPA 901.1
WW007	2069G	11-Dec-24	Beta, gross	10.9 +- 1.36	1.73	*	EPA 900.0/SW846 9310
WW007	2069G	11-Dec-24	Bismuth-212	15.4 +- 26.2	34.8	U	EPA 901.1
WW007	2069G	11-Dec-24	Bismuth-214	6.57 +- 7.41	5.37		EPA 901.1
WW007	2069G	11-Dec-24	Cesium-137	0.0126 +- 1.48	2.59	U	EPA 901.1
WW007	2069G	11-Dec-24	Cobalt-60	1.08 +- 1.62	3.03	U	EPA 901.1
WW007	2069G	11-Dec-24	Lead-212	-1.72 +- 4.77	5.48	U	EPA 901.1
WW007	2069G	11-Dec-24	Lead-214	1.16 +- 6.65	6.35	U	EPA 901.1
WW007	2069G	11-Dec-24	Neptunium-237	-1.48 +- 2.7	4.56	U	EPA 901.1
WW007	2069G	11-Dec-24	Potassium-40	49.8 +- 52.8	27.2		EPA 901.1
WW007	2069G	11-Dec-24	Radium-223	23 +- 29.4	51	U	EPA 901.1
WW007	2069G	11-Dec-24	Radium-224	-61.2 +- 39.3	45.3	U	EPA 901.1
WW007	2069G	11-Dec-24	Radium-226	32.6 +- 73.3	43.6	U	EPA 901.1
WW007	2069G	11-Dec-24	Radium-228	-7.92 +- 12	12.8	U	EPA 901.1
WW007	2069G	11-Dec-24	Sodium-22	-0.0476 +- 1.58	2.9	U	EPA 901.1
WW007	2069G	11-Dec-24	Thorium-227	0.0961 +- 10.2	18.5	U	EPA 901.1
WW007	2069G	11-Dec-24	Thorium-231	-20.3 +- 29.3	28.8	U	EPA 901.1
WW007	2069G	11-Dec-24	Thorium-234	3.68 +- 89.3	110	U	EPA 901.1
WW007	2069G	11-Dec-24	Tritium	-11.5 +- 133	236	U	EPA 906.0 Modified
WW007	2069G	11-Dec-24	Uranium-235	1.39 +- 18.4	12.8	U	EPA 901.1
WW007	2069G	11-Dec-24	Uranium-238	3.68 +- 89.3	110	U	EPA 901.1
WW007	2069G	12-Dec-24	Actinium-228	-5.13 +- 13.5	15.7	U	EPA 901.1
WW007	2069G	12-Dec-24	Alpha, gross	1.03 +- .689	1.02		EPA 900.0/SW846 9310
WW007	2069G	12-Dec-24	Americium-241	4.83 +- 16.1	27.4	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	12-Dec-24	Beryllium-7	12 +- 20.1	36.4	U	EPA 901.1
WW007	2069G	12-Dec-24	Beta, gross	1.78 +- .758	1.18		EPA 900.0/SW846 9310
WW007	2069G	12-Dec-24	Bismuth-212	37.1 +- 31.8	52.9	U	EPA 901.1
WW007	2069G	12-Dec-24	Bismuth-214	6.5 +- 11.3	9.6	U	EPA 901.1
WW007	2069G	12-Dec-24	Cesium-137	-0.302 +- 3.51	4.11	U	EPA 901.1
WW007	2069G	12-Dec-24	Cobalt-60	-2.78 +- 3.65	3.49	U	EPA 901.1
WW007	2069G	12-Dec-24	Lead-212	4.79 +- 8	7.27	U	EPA 901.1
WW007	2069G	12-Dec-24	Lead-214	-7.19 +- 8.41	8.42	U	EPA 901.1
WW007	2069G	12-Dec-24	Neptunium-237	0.972 +- 4	6.73	U	EPA 901.1
WW007	2069G	12-Dec-24	Potassium-40	43.1 +- 57.4	37.9		EPA 901.1
WW007	2069G	12-Dec-24	Radium-223	-9.46 +- 41.9	68.4	U	EPA 901.1
WW007	2069G	12-Dec-24	Radium-224	16.3 +- 40.7	63.8	U	EPA 901.1
WW007	2069G	12-Dec-24	Radium-226	-134 +- 98.1	84.5	U	EPA 901.1
WW007	2069G	12-Dec-24	Radium-228	-5.13 +- 13.5	15.7	U	EPA 901.1
WW007	2069G	12-Dec-24	Sodium-22	1.34 +- 2.1	4.05	U	EPA 901.1
WW007	2069G	12-Dec-24	Thorium-227	-7.03 +- 15.2	24.3	U	EPA 901.1
WW007	2069G	12-Dec-24	Thorium-231	25 +- 29	49	U	EPA 901.1
WW007	2069G	12-Dec-24	Thorium-234	33.6 +- 328	211	U	EPA 901.1
WW007	2069G	12-Dec-24	Tritium	45.2 +- 97.8	169	U	EPA 906.0 Modified
WW007	2069G	12-Dec-24	Uranium-235	30.6 +- 27.1	30.6	U	EPA 901.1
WW007	2069G	12-Dec-24	Uranium-238	33.6 +- 328	211	U	EPA 901.1
WW007	2069G	13-Dec-24	Actinium-228	-12.9 +- 12.9	12.5	U	EPA 901.1
WW007	2069G	13-Dec-24	Alpha, gross	1.98 +- 1.26	1.95		EPA 900.0/SW846 9310
WW007	2069G	13-Dec-24	Americium-241	4.84 +- 8.96	14.8	U	EPA 901.1
WW007	2069G	13-Dec-24	Beryllium-7	-19 +- 16.6	23.3	U	EPA 901.1
WW007	2069G	13-Dec-24	Beta, gross	2.84 +- .962	1.49		EPA 900.0/SW846 9310
WW007	2069G	13-Dec-24	Bismuth-212	15.7 +- 21.1	37.1	U	EPA 901.1
WW007	2069G	13-Dec-24	Bismuth-214	-2.7 +- 6.32	6.01	U	EPA 901.1
WW007	2069G	13-Dec-24	Cesium-137	0.464 +- 1.54	2.75	U	EPA 901.1
WW007	2069G	13-Dec-24	Cobalt-60	0.246 +- 1.58	2.96	U	EPA 901.1
WW007	2069G	13-Dec-24	Lead-212	-2.11 +- 4.48	5.53	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW007	2069G	13-Dec-24	Lead-214	3.5 +- 8.48	6.32	U	EPA 901.1
WW007	2069G	13-Dec-24	Neptunium-237	1.12 +- 2.74	5	U	EPA 901.1
WW007	2069G	13-Dec-24	Potassium-40	-24.7 +- 33.5	42.2	U	EPA 901.1
WW007	2069G	13-Dec-24	Radium-223	-10.9 +- 29.9	47.3	U	EPA 901.1
WW007	2069G	13-Dec-24	Radium-224	-94.9 +- 59.7	45.7	U	EPA 901.1
WW007	2069G	13-Dec-24	Radium-226	-79.8 +- 70.4	73.6	U	EPA 901.1
WW007	2069G	13-Dec-24	Radium-228	-12.9 +- 12.9	12.5	U	EPA 901.1
WW007	2069G	13-Dec-24	Sodium-22	-0.0867 +- 1.64	3.02	U	EPA 901.1
WW007	2069G	13-Dec-24	Thorium-227	-0.134 +- 11.4	19	U	EPA 901.1
WW007	2069G	13-Dec-24	Thorium-231	-5.77 +- 33.1	35.5	U	EPA 901.1
WW007	2069G	13-Dec-24	Thorium-234	36.5 +- 139	117	U	EPA 901.1
WW007	2069G	13-Dec-24	Tritium	41 +- 96.1	166	U	EPA 906.0 Modified
WW007	2069G	13-Dec-24	Uranium-235	-0.713 +- 15.1	16.9	U	EPA 901.1
WW007	2069G	13-Dec-24	Uranium-238	36.5 +- 139	117	U	EPA 901.1
WW008	2069I	10-Dec-24	Actinium-228	13.6 +- 9.27	13.6	U	EPA 901.1
WW008	2069I	10-Dec-24	Alpha, gross	3.24 +- 1.17	1.61	*	EPA 900.0/SW846 9310
WW008	2069I	10-Dec-24	Americium-241	-0.886 +- 17.8	27.2	U	EPA 901.1
WW008	2069I	10-Dec-24	Beryllium-7	-7.42 +- 17.2	27.9	U	EPA 901.1
WW008	2069I	10-Dec-24	Beta, gross	19.2 +- 1.91	2.23	*	EPA 900.0/SW846 9310
WW008	2069I	10-Dec-24	Bismuth-212	35 +- 42.6	41.9	U	EPA 901.1
WW008	2069I	10-Dec-24	Bismuth-214	3.7 +- 9.18	6.9	U	EPA 901.1
WW008	2069I	10-Dec-24	Cesium-137	0.372 +- 1.87	2.95	U	EPA 901.1
WW008	2069I	10-Dec-24	Cobalt-60	0.339 +- 1.6	2.92	U	EPA 901.1
WW008	2069I	10-Dec-24	Lead-212	9.03 +- 8.65	9.03	U	EPA 901.1
WW008	2069I	10-Dec-24	Lead-214	11.5 +- 7.57	11.5	U	EPA 901.1
WW008	2069I	10-Dec-24	Neptunium-237	0.177 +- 3.47	5.92	U	EPA 901.1
WW008	2069I	10-Dec-24	Potassium-40	-18.2 +- 39	46.7	U	EPA 901.1
WW008	2069I	10-Dec-24	Radium-223	-7.29 +- 34.3	57.5	U	EPA 901.1
WW008	2069I	10-Dec-24	Radium-224	77.7 +- 52.5	77.8	U	EPA 901.1
WW008	2069I	10-Dec-24	Radium-226	50.1 +- 99.5	57.8	U	EPA 901.1
WW008	2069I	10-Dec-24	Radium-228	13.6 +- 9.27	13.6	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	10-Dec-24	Sodium-22	0.775 +- 1.85	3.33	U	EPA 901.1
WW008	2069I	10-Dec-24	Thorium-227	10.3 +- 14.5	23.8	U	EPA 901.1
WW008	2069I	10-Dec-24	Thorium-231	-39.4 +- 52.3	49.8	U	EPA 901.1
WW008	2069I	10-Dec-24	Thorium-234	69.9 +- 258	199	U	EPA 901.1
WW008	2069I	10-Dec-24	Tritium	12.9 +- 141	248	U	EPA 906.0 Modified
WW008	2069I	10-Dec-24	Uranium-235	4.54 +- 21.5	17.7	U	EPA 901.1
WW008	2069I	10-Dec-24	Uranium-238	69.9 +- 258	199	U	EPA 901.1
WW008	2069I	11-Dec-24	Actinium-228	-20.6 +- 21.7	21.1	U	EPA 901.1
WW008	2069I	11-Dec-24	Alpha, gross	1.33 +- .665	0.932	*	EPA 900.0/SW846 9310
WW008	2069I	11-Dec-24	Americium-241	0.00537 +- 3.01	5.19	U	EPA 901.1
WW008	2069I	11-Dec-24	Beryllium-7	-8.23 +- 28.6	47.6	U	EPA 901.1
WW008	2069I	11-Dec-24	Beta, gross	21.2 +- 1.75	1.82	*	EPA 900.0/SW846 9310
WW008	2069I	11-Dec-24	Bismuth-212	-8.91 +- 62.7	74.6	U	EPA 901.1
WW008	2069I	11-Dec-24	Bismuth-214	-0.376 +- 9.69	11.9	U	EPA 901.1
WW008	2069I	11-Dec-24	Cesium-137	6.5 +- 6.44	5.27	X	EPA 901.1
WW008	2069I	11-Dec-24	Cobalt-60	-1.99 +- 2.98	4.9	U	EPA 901.1
WW008	2069I	11-Dec-24	Lead-212	8.78 +- 9.71	6.22		EPA 901.1
WW008	2069I	11-Dec-24	Lead-214	-7.49 +- 9.68	9.47	U	EPA 901.1
WW008	2069I	11-Dec-24	Neptunium-237	2.55 +- 4.75	8.29	U	EPA 901.1
WW008	2069I	11-Dec-24	Potassium-40	9.74 +- 77.3	55.7	U	EPA 901.1
WW008	2069I	11-Dec-24	Radium-223	14.7 +- 46.7	82.1	U	EPA 901.1
WW008	2069I	11-Dec-24	Radium-224	42.8 +- 44.2	73.3	U	EPA 901.1
WW008	2069I	11-Dec-24	Radium-226	-31.1 +- 77.3	95.4	U	EPA 901.1
WW008	2069I	11-Dec-24	Radium-228	-20.6 +- 21.7	21.1	U	EPA 901.1
WW008	2069I	11-Dec-24	Sodium-22	1.02 +- 3.17	6.01	U	EPA 901.1
WW008	2069I	11-Dec-24	Thorium-227	4.18 +- 17.8	28.5	U	EPA 901.1
WW008	2069I	11-Dec-24	Thorium-231	-1.37 +- 30.6	34	U	EPA 901.1
WW008	2069I	11-Dec-24	Thorium-234	-41 +- 65.3	77.5	U	EPA 901.1
WW008	2069I	11-Dec-24	Tritium	83.2 +- 141	240	U	EPA 906.0 Modified
WW008	2069I	11-Dec-24	Uranium-235	16.3 +- 25.3	22.4	U	EPA 901.1
WW008	2069I	11-Dec-24	Uranium-238	-41 +- 65.3	77.5	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	12-Dec-24	Actinium-228	18.4 +- 11.9	18.4	U	EPA 901.1
WW008	2069I	12-Dec-24	Alpha, gross	0.982 +- .656	0.975		EPA 900.0/SW846 9310
WW008	2069I	12-Dec-24	Americium-241	-60 +- 33.5	28.3	U	EPA 901.1
WW008	2069I	12-Dec-24	Beryllium-7	-0.343 +- 17.9	30.3	U	EPA 901.1
WW008	2069I	12-Dec-24	Beta, gross	14.3 +- 1.71	2.29		EPA 900.0/SW846 9310
WW008	2069I	12-Dec-24	Bismuth-212	24.5 +- 25.1	42.2	U	EPA 901.1
WW008	2069I	12-Dec-24	Bismuth-214	9.55 +- 10.3	5.75		EPA 901.1
WW008	2069I	12-Dec-24	Cesium-137	1.38 +- 1.79	3.11	U	EPA 901.1
WW008	2069I	12-Dec-24	Cobalt-60	-0.883 +- 1.82	3.02	U	EPA 901.1
WW008	2069I	12-Dec-24	Lead-212	3.89 +- 7.23	6.41	U	EPA 901.1
WW008	2069I	12-Dec-24	Lead-214	14.9 +- 9.24	14.9	U	EPA 901.1
WW008	2069I	12-Dec-24	Neptunium-237	0.468 +- 3.3	5.64	U	EPA 901.1
WW008	2069I	12-Dec-24	Potassium-40	14.1 +- 48.3	26.4	U	EPA 901.1
WW008	2069I	12-Dec-24	Radium-223	-13.9 +- 34.1	56.1	U	EPA 901.1
WW008	2069I	12-Dec-24	Radium-224	24.7 +- 39.7	58.2	U	EPA 901.1
WW008	2069I	12-Dec-24	Radium-226	4.87 +- 79.3	87.9	U	EPA 901.1
WW008	2069I	12-Dec-24	Radium-228	18.4 +- 11.9	18.4	U	EPA 901.1
WW008	2069I	12-Dec-24	Sodium-22	-1 +- 1.78	2.92	U	EPA 901.1
WW008	2069I	12-Dec-24	Thorium-227	-7.09 +- 13.7	22.3	U	EPA 901.1
WW008	2069I	12-Dec-24	Thorium-231	-32.5 +- 53.1	49.9	U	EPA 901.1
WW008	2069I	12-Dec-24	Thorium-234	-37.4 +- 210	252	U	EPA 901.1
WW008	2069I	12-Dec-24	Tritium	57.1 +- 99.4	170	U	EPA 906.0 Modified
WW008	2069I	12-Dec-24	Uranium-235	1.98 +- 20.3	19.5	U	EPA 901.1
WW008	2069I	12-Dec-24	Uranium-238	-37.4 +- 210	252	U	EPA 901.1
WW008	2069I	13-Dec-24	Actinium-228	-18.1 +- 21.4	21.8	U	EPA 901.1
WW008	2069I	13-Dec-24	Alpha, gross	0.57 +- 1.27	2.23	U	EPA 900.0/SW846 9310
WW008	2069I	13-Dec-24	Americium-241	-1.53 +- 3.05	5.01	U	EPA 901.1
WW008	2069I	13-Dec-24	Beryllium-7	-16.7 +- 28.6	45.3	U	EPA 901.1
WW008	2069I	13-Dec-24	Beta, gross	15.4 +- 1.48	1.56		EPA 900.0/SW846 9310
WW008	2069I	13-Dec-24	Bismuth-212	28.4 +- 67.1	60.8	U	EPA 901.1
WW008	2069I	13-Dec-24	Bismuth-214	12.2 +- 13.6	9.29		EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW008	2069I	13-Dec-24	Cesium-137	-0.0213 +- 2.75	5	U	EPA 901.1
WW008	2069I	13-Dec-24	Cobalt-60	1.4 +- 3.11	5.92	U	EPA 901.1
WW008	2069I	13-Dec-24	Lead-212	4.48 +- 8.11	6.4	U	EPA 901.1
WW008	2069I	13-Dec-24	Lead-214	10.1 +- 12.5	11.2	U	EPA 901.1
WW008	2069I	13-Dec-24	Neptunium-237	2.69 +- 4.92	8.56	U	EPA 901.1
WW008	2069I	13-Dec-24	Potassium-40	69.7 +- 75.5	50.4		EPA 901.1
WW008	2069I	13-Dec-24	Radium-223	-1.24 +- 45.9	80.2	U	EPA 901.1
WW008	2069I	13-Dec-24	Radium-224	-0.696 +- 43.1	68.7	U	EPA 901.1
WW008	2069I	13-Dec-24	Radium-226	-18.9 +- 76.3	95.5	U	EPA 901.1
WW008	2069I	13-Dec-24	Radium-228	-18.1 +- 21.4	21.8	U	EPA 901.1
WW008	2069I	13-Dec-24	Sodium-22	-1.07 +- 3.57	5.49	U	EPA 901.1
WW008	2069I	13-Dec-24	Thorium-227	1.51 +- 16.2	28.8	U	EPA 901.1
WW008	2069I	13-Dec-24	Thorium-231	37.2 +- 47.6	27.9	X	EPA 901.1
WW008	2069I	13-Dec-24	Thorium-234	2.48 +- 62.2	80.1	U	EPA 901.1
WW008	2069I	13-Dec-24	Tritium	41.5 +- 98.5	171	U	EPA 906.0 Modified
WW008	2069I	13-Dec-24	Uranium-235	3.01 +- 21.7	22	U	EPA 901.1
WW008	2069I	13-Dec-24	Uranium-238	2.48 +- 62.2	80.1	U	EPA 901.1
WW011	2069K	10-Dec-24	Actinium-228	-12.4 +- 12	10.3	U	EPA 901.1
WW011	2069K	10-Dec-24	Alpha, gross	2.9 +- 1.17	1.69	*	EPA 900.0/SW846 9310
WW011	2069K	10-Dec-24	Americium-241	0.25 +- 10.9	18	U	EPA 901.1
WW011	2069K	10-Dec-24	Beryllium-7	4.58 +- 11.4	20.8	U	EPA 901.1
WW011	2069K	10-Dec-24	Beta, gross	15.1 +- 1.89	2.4	*	EPA 900.0/SW846 9310
WW011	2069K	10-Dec-24	Bismuth-212	19.5 +- 30.1	30.9	U	EPA 901.1
WW011	2069K	10-Dec-24	Bismuth-214	6.7 +- 5.07	6.7	U	EPA 901.1
WW011	2069K	10-Dec-24	Cesium-137	-0.312 +- 1.25	2.16	U	EPA 901.1
WW011	2069K	10-Dec-24	Cobalt-60	1.47 +- 1.51	2.75	U	EPA 901.1
WW011	2069K	10-Dec-24	Lead-212	3.96 +- 5.71	4.89	U	EPA 901.1
WW011	2069K	10-Dec-24	Lead-214	-1.05 +- 5.87	5.38	U	EPA 901.1
WW011	2069K	10-Dec-24	Neptunium-237	0.832 +- 2.25	4.11	U	EPA 901.1
WW011	2069K	10-Dec-24	Potassium-40	37.3 +- 40.3	21.7		EPA 901.1
WW011	2069K	10-Dec-24	Radium-223	5.33 +- 22.7	41.5	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	10-Dec-24	Radium-224	3.02 +- 25.3	39	U	EPA 901.1
WW011	2069K	10-Dec-24	Radium-226	-31.3 +- 58.4	58.8	U	EPA 901.1
WW011	2069K	10-Dec-24	Radium-228	-12.4 +- 12	10.3	U	EPA 901.1
WW011	2069K	10-Dec-24	Sodium-22	0.329 +- 1.13	2.18	U	EPA 901.1
WW011	2069K	10-Dec-24	Thorium-227	6.57 +- 10.4	17	U	EPA 901.1
WW011	2069K	10-Dec-24	Thorium-231	-2.72 +- 19.2	33.3	U	EPA 901.1
WW011	2069K	10-Dec-24	Thorium-234	153 +- 176	131	X	EPA 901.1
WW011	2069K	10-Dec-24	Tritium	-40.1 +- 122	219	U	EPA 906.0 Modified
WW011	2069K	10-Dec-24	Uranium-235	-11.3 +- 14.8	14	U	EPA 901.1
WW011	2069K	10-Dec-24	Uranium-238	153 +- 176	131	X	EPA 901.1
WW011	2069K	11-Dec-24	Actinium-228	4.16 +- 12.7	9.44	U	EPA 901.1
WW011	2069K	11-Dec-24	Alpha, gross	0.337 +- .88	1.51	U*	EPA 900.0/SW846 9310
WW011	2069K	11-Dec-24	Americium-241	0.325 +- 6.58	10.9	U	EPA 901.1
WW011	2069K	11-Dec-24	Beryllium-7	5.05 +- 13.8	25	U	EPA 901.1
WW011	2069K	11-Dec-24	Beta, gross	21 +- 1.7	2.09	*	EPA 900.0/SW846 9310
WW011	2069K	11-Dec-24	Bismuth-212	-17.3 +- 32.9	34.6	U	EPA 901.1
WW011	2069K	11-Dec-24	Bismuth-214	3.1 +- 7.44	6.75	U	EPA 901.1
WW011	2069K	11-Dec-24	Cesium-137	0.725 +- 1.35	2.42	U	EPA 901.1
WW011	2069K	11-Dec-24	Cobalt-60	0.885 +- 1.68	3.13	U	EPA 901.1
WW011	2069K	11-Dec-24	Lead-212	1.83 +- 5.95	5.61	U	EPA 901.1
WW011	2069K	11-Dec-24	Lead-214	2.51 +- 7.13	6.48	U	EPA 901.1
WW011	2069K	11-Dec-24	Neptunium-237	1.48 +- 2.62	4.72	U	EPA 901.1
WW011	2069K	11-Dec-24	Potassium-40	36.8 +- 46.1	29.8		EPA 901.1
WW011	2069K	11-Dec-24	Radium-223	-2.04 +- 45.7	45.4	U	EPA 901.1
WW011	2069K	11-Dec-24	Radium-224	-11.3 +- 40.3	44.1	U	EPA 901.1
WW011	2069K	11-Dec-24	Radium-226	16.5 +- 64.2	42.5	U	EPA 901.1
WW011	2069K	11-Dec-24	Radium-228	4.16 +- 12.7	9.44	U	EPA 901.1
WW011	2069K	11-Dec-24	Sodium-22	0.21 +- 1.64	2.85	U	EPA 901.1
WW011	2069K	11-Dec-24	Thorium-227	-2.98 +- 11.1	18	U	EPA 901.1
WW011	2069K	11-Dec-24	Thorium-231	0.697 +- 32.9	27.6	U	EPA 901.1
WW011	2069K	11-Dec-24	Thorium-234	-64.6 +- 107	133	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	11-Dec-24	Tritium	36.1 +- 103	179	U	EPA 906.0 Modified
WW011	2069K	11-Dec-24	Uranium-235	4.32 +- 18.4	13.2	U	EPA 901.1
WW011	2069K	11-Dec-24	Uranium-238	-64.6 +- 107	133	U	EPA 901.1
WW011	2069K	12-Dec-24	Actinium-228	-14.8 +- 18.5	14	U	EPA 901.1
WW011	2069K	12-Dec-24	Alpha, gross	2.96 +- 2	3.04	U	EPA 900.0/SW846 9310
WW011	2069K	12-Dec-24	Americium-241	4.7 +- 9.95	16.2	U	EPA 901.1
WW011	2069K	12-Dec-24	Beryllium-7	0.811 +- 17.1	29.8	U	EPA 901.1
WW011	2069K	12-Dec-24	Beta, gross	6.36 +- 3.16	5.01		EPA 900.0/SW846 9310
WW011	2069K	12-Dec-24	Bismuth-212	20.8 +- 26.4	43.9	U	EPA 901.1
WW011	2069K	12-Dec-24	Bismuth-214	6.52 +- 8.36	5.54		EPA 901.1
WW011	2069K	12-Dec-24	Cesium-137	0.421 +- 4.71	2.96	U	EPA 901.1
WW011	2069K	12-Dec-24	Cobalt-60	3.18 +- 2.43	3.83	U	EPA 901.1
WW011	2069K	12-Dec-24	Lead-212	1.01 +- 5.82	5.64	U	EPA 901.1
WW011	2069K	12-Dec-24	Lead-214	4.11 +- 7.47	6.83	U	EPA 901.1
WW011	2069K	12-Dec-24	Neptunium-237	0.189 +- 2.9	5.2	U	EPA 901.1
WW011	2069K	12-Dec-24	Potassium-40	5.11 +- 47.4	29.6	U	EPA 901.1
WW011	2069K	12-Dec-24	Radium-223	7.34 +- 30.7	54.7	U	EPA 901.1
WW011	2069K	12-Dec-24	Radium-224	-132 +- 69.4	46.8	U	EPA 901.1
WW011	2069K	12-Dec-24	Radium-226	27.9 +- 95	50.3	U	EPA 901.1
WW011	2069K	12-Dec-24	Radium-228	-14.8 +- 18.5	14	U	EPA 901.1
WW011	2069K	12-Dec-24	Sodium-22	-0.405 +- 1.79	3.1	U	EPA 901.1
WW011	2069K	12-Dec-24	Thorium-227	-2.14 +- 11.8	21.1	U	EPA 901.1
WW011	2069K	12-Dec-24	Thorium-231	28.5 +- 52.4	36.7	U	EPA 901.1
WW011	2069K	12-Dec-24	Thorium-234	-112 +- 178	187	U	EPA 901.1
WW011	2069K	12-Dec-24	Tritium	66.6 +- 106	179	U	EPA 906.0 Modified
WW011	2069K	12-Dec-24	Uranium-235	-2.32 +- 19.5	19.3	U	EPA 901.1
WW011	2069K	12-Dec-24	Uranium-238	-112 +- 178	187	U	EPA 901.1
WW011	2069K	13-Dec-24	Actinium-228	-12.8 +- 18.7	17	U	EPA 901.1
WW011	2069K	13-Dec-24	Alpha, gross	1.24 +- 1.28	2.12	U	EPA 900.0/SW846 9310
WW011	2069K	13-Dec-24	Americium-241	6.23 +- 13.5	24.5	U	EPA 901.1
WW011	2069K	13-Dec-24	Beryllium-7	0.301 +- 19.4	35.3	U	EPA 901.1

Appendix D. Sanitary Outfalls Monitoring Results in 2024

Station	Permit Number	Date Collected	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Data Qualifiers ^a	Analytical Method
WW011	2069K	13-Dec-24	Beta, gross	14.2 +- 1.78	2.21		EPA 900.0/SW846 9310
WW011	2069K	13-Dec-24	Bismuth-212	39.6 +- 34.5	56.3	U	EPA 901.1
WW011	2069K	13-Dec-24	Bismuth-214	7.68 +- 8.98	6.98		EPA 901.1
WW011	2069K	13-Dec-24	Cesium-137	0.414 +- 2.35	3.7	U	EPA 901.1
WW011	2069K	13-Dec-24	Cobalt-60	-0.036 +- 2.4	4.44	U	EPA 901.1
WW011	2069K	13-Dec-24	Lead-212	-2.71 +- 6.11	6.73	U	EPA 901.1
WW011	2069K	13-Dec-24	Lead-214	10.8 +- 10.3	10.8	U	EPA 901.1
WW011	2069K	13-Dec-24	Neptunium-237	-0.799 +- 3.5	5.74	U	EPA 901.1
WW011	2069K	13-Dec-24	Potassium-40	97.4 +- 39.5	42.9		EPA 901.1
WW011	2069K	13-Dec-24	Radium-223	86.4 +- 99.4	86.4	U	EPA 901.1
WW011	2069K	13-Dec-24	Radium-224	21.6 +- 53.6	69.8	U	EPA 901.1
WW011	2069K	13-Dec-24	Radium-226	69.2 +- 120	70.7	U	EPA 901.1
WW011	2069K	13-Dec-24	Radium-226	55.4 +- 81.4	55.4		EPA 901.1
WW011	2069K	13-Dec-24	Radium-228	-12.8 +- 18.7	17	U	EPA 901.1
WW011	2069K	13-Dec-24	Sodium-22	0.798 +- 2.42	4.41	U	EPA 901.1
WW011	2069K	13-Dec-24	Thorium-227	4.36 +- 13.4	24	U	EPA 901.1
WW011	2069K	13-Dec-24	Thorium-231	12.3 +- 58.2	39.1	U	EPA 901.1
WW011	2069K	13-Dec-24	Thorium-234	-122 +- 202	210	U	EPA 901.1
WW011	2069K	13-Dec-24	Tritium	40.2 +- 105	182	U	EPA 906.0 Modified
WW011	2069K	13-Dec-24	Uranium-235	-34.9	19	U	EPA 901.1
WW011	2069K	13-Dec-24	Uranium-238	-324	210	U	EPA 901.1

^a Blank cells indicate that the data did not require a data qualifier.

CINT = Center for Integrated Nanotechnologies

MDA = minimal detectable activity or minimum measured activity in a sample required to ensure a 95 percent probability that the measured activity is accurately quantified above the critical level

Laboratory Data Qualifier

* = A replicate was outside limits.

U = The analyte was absent or below the method detection limit.

X = The data was rejected due to the peak not meeting identification criteria.

Analytical Method

EPA 900.0/SW-846 9310 (EPA 1980) (EPA 1986)

EPA 901.1 (EPA 1980)

Appendix D. Sanitary Outfalls Monitoring Results in 2024

EPA 906.0 Modified (EPA 1980)

Appendix E. Summary of Groundwater Monitoring in 2024



Yellow aphids (*Aphis spp.*) on milkweed (*Asclepias spp.*)

Table E-1. Sample collection events for groundwater quality monitoring at SNL/NM, January through December 2024

Sampling Event	Groundwater Monitoring Program	Chemical Waste Landfill	Mixed Waste Landfill	TA-V Groundwater Area of Concern	Tijeras Arroyo Groundwater Area of Concern	Burn Site Groundwater Area of Concern
January		√		√		
February				√	√	
March					√	
April	√					
May	√		√			√
June						√
July		√		√		
August				√	√	
September					√	
October			√			√
November					√	√
December						

Table E-2. SNL/NM groundwater monitoring analytical results, calendar year 2024

Analyte	Number of Detects	Number of Non-Detects	Minimum Detected Value	Maximum Detected Value	Mean Detected Value	MCL
Summary of Field Water Quality Parameters Prior to Sample Collection (units as indicated below)						
pH in SU	121	0	6015	7.91	7.36	NE
Specific Conductivity in $\mu\text{mhos/cm}$	121	0	321.05	4110	793.7	NE
Temperature in $^{\circ}\text{C}$	121	0	12.05	28.74	19.68	NE
Turbidity in NTU	121	0	0.02	13.7	0.86	NE
Detected Organic Compounds in $\mu\text{g/L}$						
Chloroform	8	96	0.340	2.65	1.288	80.0a
Dichloroethane, 1,1-	1	98	4.12	4.12	4.12	NE
Dichloroethene, 1,1-	2	102	1.34	1.97	1.66	7.0
Dichloroethene, cis-1,2-	18	81	0.360	5.36	1.176	70.0
Diesel Range Organics	2	31	102	103	102.5	NE
Methylene Chloride	1	98	0.680	0.680	0.680	5.0
Tetrachloroethene	3	101	0.580	11.6	4.513	5.0
Toluene	4	95	0.400	0.690	0.505	1000
Trichloroethene	35	74	0.380	18.5	4.123	5.0
Detected Organic Compounds in mg/L						
Perchlorate	1	0	0.000826	0.000826	0.000826	NE
Detected Inorganic Parameters in mg/L						
Alkalinity as CaCO_3	71	0	80.8	1020	206.3	NE
Bromide	71	0	0.167	4.30	0.670	NE
Chloride	71	0	11.1	471	57.9	NE
Fluoride	70	1	0.262	2.08	0.946	4.0
Nitrate plus nitrite	131	0	0.116	34.0	7.658	10.0
Sulfate	71	0	16.8	2100	119.4	NE
Total Organic Halogens	11	10	0.00624	0.068	0.02616	NE
Total Phenols	4	8	0.00427	0.0645	0.02442	NE
Detected Metals in mg/L						
Aluminum	10	61	0.0199	0.343	0.1088	NE
Antimony	4	67	0.00111	0.00143	0.00129	0.006
Arsenic	20	51	0.00201	0.00818	0.00282	0.010
Barium	71	0	0.00822	0.225	0.06817	2.0
Beryllium	3	68	0.000216	0.00718	0.003099	0.004
Cadmium	2	77	0.000357	0.000523	0.000440	0.005
Calcium	71	0	36.6	329	88.1	NE
Chromium	7	84	0.00313	0.0355	0.01172	0.100
Cobalt	4	67	0.000404	0.00935	0.003076	NE
Copper	15	56	0.000301	0.00606	0.001164	NE
Iron	20	51	0.0336	0.255	0.0805	NE
Magnesium	71	0	3.29	61.5	20.27	NE
Manganese	20	49	0.0011	1.35	0.0746	NE
Mercury	1	91	0.000141	0.000141	0.000141	0.002
Molybdenum	1	0	0.00867	0.00867	0.00867	NE

Appendix E. Summary of Groundwater Monitoring in 2024

Analyte	Number of Detects	Number of Non-Detects	Minimum Detected Value	Maximum Detected Value	Mean Detected Value	MCL
Nickel	13	78	0.000608	0.0235	0.003928	NE
Potassium	71	0	1.44	28.8	3.56	NE
Selenium	55	16	0.00167	0.0318	0.00504	0.050
Sodium	71	0	14.3	1090	62.4	NE
Thallium	1	70	0.00120	0.00120	0.00120	0.002
Uranium	57	0	0.00103	0.00928	0.00382	0.030
Vanadium	62	9	0.00341	0.0119	0.00623	NE
Zinc	15	56	0.00337	0.0408	0.01130	NE
Detected Radiological Parameters in pCi/L						
Alpha, gross (corrected)	76	5	-8.15	10.4	0.07	15.0b
Beta, gross	78	3	1.53	30.4	5.79	4 mrem/yr
Cobalt-60	1	80	-1.33	-1.33	-1.33	NE
Potassium-40	10	70	34.2	72.5	51.8	NE
Radium-226	18	3	0.502	3.83	1.650	5.0c
Radium-228	13	8	0.440	1.31	0.810	5.0c
Radon-222	9	1	136	464	296	NE
Uranium-233/234	24	0	0.373	28.0	12.376	NE
Uranium-235/236	19	5	0.126	0.559	0.279	NE
Uranium-238	23	1	0.205	5.70	2.539	NE

Note: The number of active wells sampled was 74, the number of analyses performed was 8,638, and the percent of non-detected results was 82 percent.

^aThe 80.0 µg/L MCL is for combined trihalomethanes.

^bThe 15.0 pCi/L MCL is for corrected gross alpha activity.

^cThe 5.0 pCi/L MCL is for combined radium-226 and radium-228.

4 mrem/yr = any combination of beta- and/or gamma-emitting radionuclides (as dose rate)

CaCO₃ = calcium as carbon carbonate

corrected = gross alpha results reported as corrected values (uranium activities subtracted out)

MCL = maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Drinking Water Regulations (40 CFR 141.11[b]), National Primary Drinking Water Standards (EPA March 2018)

N = nitrogen

NE = not established

NTU = nephelometric turbidity unit

pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

SU = standard unit(s)

Table E-3. Exceedances for SNL/NM groundwater monitoring wells and springs sampled, calendar year 2024

Analyte	Well	Exceedance	Date
Beryllium MCL = 0.004 mg/L	Coyote Springs	0.00718 mg/L ^a	April 2024
Nitrate plus nitrite (as nitrogen) MCL = 10.0 mg/L	CYN-MW9	33.5 mg/L	June 2024
		34.0 mg/L	October 2024
	CYN-MW10	23.9 mg/L	June 2024
		21.0 mg/L	October 2024
	CYN-MW10 (duplicate)	24.3 mg/L	October 2024
	CYN-MW12	17.0 mg/L	June 2024
		16.9 mg/L	October 2024
	CYN-MW12 (duplicate)	22.6 mg/L	October 2024
	CYN-MW13	23.8 mg/L	June 2024
		24.5 mg/L	October 2024
	CYN-MW14A	11.8 mg/L	June 2024
		11.4 mg/L	October 2024
	CYN-MW14A (duplicate)	11.9 mg/L	June 2024
	LWDS-MW1	12.0 mg/L	February 2024
		12.4 mg/L	August 2024
	LWDS-MW1 (duplicate)	12.0 mg/L	February 2024
		12.3 mg/L	February 2024
	TA2-W-19	13.5 mg/L	September 2024
		17.4 mg/L	March 2024
	TA2-W-28	17.3 mg/L	September 2024
		12.9 mg/L	February 2024
	TAV-MW10	12.4 mg/L	August 2024
		11.7 mg/L	March 2024
	TJA-2	13.0 mg/L	September 2024
		32.1 mg/L	September 2024
	TJA-4	32.5 mg/L	September 2024
	TJA-4 (duplicate)	12.6 mg/L	March 2024
		14.2 mg/L	September 2024
	TJA-5	20.7 mg/L	March 2024
		21.9 mg/L	September 2024
	TJA-7	20.6 mg/L	March 2024
	TJA-7 (duplicate)		
Tetrachloroethene MCL = 5.0 µg/L	TA2-W-26	11.6 µg/L	November 2024
Trichloroethene MCL = 5.0 µg/L	LWDS-MW1	5.58 µg/L	February 2024
		6.11 µg/L	August 2024
	LWDS-MW1 (duplicate)	6.60 µg/L	February 2024
	TA2-W-26	18.5 µg/L	November 2024
	TAV-MW4	5.70 µg/L	February 2024
		6.31 µg/L	August 2024
	TAV-MW6	7.64 µg/L	February 2024
		7.86 µg/L	August 2024

Appendix E. Summary of Groundwater Monitoring in 2024

Analyte	Well	Exceedance	Date
	TAV-MW8	5.11 µg/L	August 2024
	TAV-MW10	9.11 µg/L	February 2024
		8.82 µg/L	August 2024
	TJA-7	5.29 µg/L	September 2024

^aAnalytical result for filtered groundwater sample. All other analytical results are for unfiltered groundwater samples.

MCL = maximum contaminant level

CYN = Canyons

LWDS = Liquid Waste Disposal System

MW = Monitoring well

TA = Technical Area

TAV = Technical Area V (monitoring well designation only)

TJA = Tijeras Arroyo

Appendix F. Vulnerability Assessment and Resilience Plan Natural Hazard Risks



Sandia Mountains fall colors

Table F-1. Natural hazard risks by asset and infrastructure type

Asset and Infrastructure System Type	Number of Assets	Cold Wave	Ice Storm	Hail	Winter Weather	Strong Wind	Drought	Wildfire	Heat Wave	Precipitation	Riverine Flooding	Other, Flooding: Precip. = 6-hr 100-yr event	Other, Mean # of Days with Min. Temp. < 32°F	Other, Mean # of Days with Max. Temp. ≥ 95°F
Specialized or mission-critical equipment (e.g., lasers, high-performance computers, or particle accelerators)	66	7.3	5.4	7.1	6.7	7.1	8.6	8.2	9.4	7.0	7.0	8.1	None	7.1
Buildings, may be broken down by type (e.g., those with critical functions or office buildings)	37	6.3	2.7	5.7	5.7	6.2	7.7	6.4	8.5	None	6.0	7.2	None	6.2
Water and wastewater systems	6	6.5	4.0	4.9	7.3	5.3	7.8	5.0	7.7	None	6.0	7.0	5.5	8.5
On-site waste disposal facility	4	5.5	1.8	4.8	4.8	5.3	7.5	8.0	7.5	None	None	6.8	None	5.3
Other	4	6.0	1.8	4.8	4.8	5.3	6.8	6.0	7.7	None	None	6.0	None	5.3
Workforce (e.g., outdoor workers, researchers, or office staff)	1	6.5	4.5	6.5	6.5	7.0	7.5	9.3	7.5	6.0	8.0	7.5	6.5	7.0
Energy generation and distribution systems	1	7.3	2.5	None	5.5	6.0	None	7.0	6.5	6.0	6.0	5.5	None	6.0
IT and telecommunication Systems	1	None	None	None	None	6.0	None	7.0	7.0	None	6.0	7.0	None	None
Transportation and fleet infrastructure	1	4.5	4.0	None	7.0	None	None	8.3	5.5	7.8	8.8	8.3	None	6.0
Ecology and land preservation	1	8.3	None	None	None	6.0	10.0	9.3	9.3	None	8.8	8.3	8.3	9.8

Risk Score and Color Key

High	≥ 7
Medium	3.5 ≤ 7
Low	< 3.5
None	Zero calculated risk

Appendix References



Rainbow over the Manzanita Mountains

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