



Howard Backer, M.D., M.P.H.
Interim Director

State of California - Health and Human Services Agency
California Department of Public Health

Drinking Water and Radiation Laboratory Branch

850 Marina Bay Parkway, Richmond, CA 94804
Phone: (510) 620-2911 Fax: (510) 620-2940



EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0279

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name: [REDACTED]	Organization: Radiologic Health Branch		
Address: [REDACTED]			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone: [REDACTED]

Site and Sample Information			
Collector's Name:	Date/Time Collected: 03/16/2011 10:25	Date/Time Received: 03/17/2011 09:25	
Site Name: Eureka / Air	Source Name:		
R Number: R 93992	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
15122.0	03/15/2011 13:55	15277.4	03/16/2011 10:25	155.4

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0279-001	Eureka	HASL Ga-01-R	Ba-140	-0.136 ± 0.113	0.252	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Ce-141	-0.0655 ± 0.0311	0.0599	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Ce-144	0.00213 ± 0.115	0.298	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Cs-134	0.00966 ± 0.0201	0.0664	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Cs-137	0.00436 ± 0.0249	0.0778	pCi/m3
N11-0279-001	Eureka	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0279-001	Eureka	DOE RP 710	Gross Beta	±		pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Ru-103	0.00582 ± 0.0223	0.0690	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Ru-106	-0.0519 ± 0.228	0.575	pCi/m3
N11-0279-001	Eureka	HASL Ga-01-R	Zr-95	0.0393 ± 0.0466	0.124	pCi/m3
N11-0279-002	Eureka	HASL Ga-01-R	Iodine-131	-0.00947 ± 0.0358	0.0917	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0286

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name:	Organization: Radiologic Health Branch		
Address:			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone:

Site and Sample Information			
Collector's Name:	Date/Time Collected: 03/16/2011 15:28	Date/Time Received: 03/18/2011 11:27	
Site Name: Humboldt Bay / Air	Source Name:		
R Number:	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
72811.6	03/11/2011 13:43	73715.1	03/16/2011 15:28	903.5

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Ba-140	-0.0149 ± 0.0223	0.0533	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Ce-141	0.00198 ± 0.00465	0.0150	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Ce-144	0.0109 ± 0.0203	0.0696	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Cs-134	-0.00251 ± 0.00625	0.0156	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Cs-137	0.00916 ± 0.00229	0.0166	pCi/m ³
N11-0286-001	Humboldt Bay NPP	DOE RP 710	Gross Alpha	±		pCi/m ³
N11-0286-001	Humboldt Bay NPP	DOE RP 710	Gross Beta	±		pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Ru-103	-0.00103 ± 0.00400	0.0112	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Ru-106	0.0521 ± 0.0159	0.116	pCi/m ³
N11-0286-001	Humboldt Bay NPP	HASL Ga-01-R	Zr-95	-0.00304 ± 0.00973	0.0259	pCi/m ³

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0267

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name:	Organization: Radiologic Health Branch		
Address			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone

Site and Sample Information			
Collector's Name	Date/Time Collected: 03/16/2011 09:38	Date/Time Received: 03/16/2011 10:00	
Site Name: Richmond / Air	Source Name: ¹		
R Number: R 91566	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
3330.3	03/15/2011 09:00	3505.3	03/16/2011 09:38	175.0

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA₉₅</u>	<u>Units</u>
N11-0267-001	Richmond	HASL Ga-01-R	Ba-140	-0.0152 ± 0.0687	0.195	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Ce-141	-0.00107 ± 0.0232	0.0611	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Ce-144	0.0550 ± 0.0905	0.261	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Cs-134	-0.0616 ± 0.0303	0.0545	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Cs-137	0.0548 ± 0.0115	0.0815	pCi/m ³
N11-0267-001	Richmond	DOE RP 710	Gross Alpha	±		pCi/m ³
N11-0267-001	Richmond	DOE RP 710	Gross Beta	±		pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Ru-103	-0.000287 ± 0.0176	0.0514	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Ru-106	0.246 ± 0.118	0.576	pCi/m ³
N11-0267-001	Richmond	HASL Ga-01-R	Zr-95	0.0136 ± 0.0551	0.105	pCi/m ³

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0288

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name	Organization: Radiologic Health Branch		
Address			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone:

Site and Sample Information			
Collector's Name: I	Date/Time Collected: 03/16/2011 11:44	Date/Time Received: 03/18/2011 12:13	
Site Name: Livermore / Air	Source Name:		
R Number: R 91044	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
29871.7	03/10/2011 15:07	30891.3	03/16/2011 11:44	1019.6

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0288-001	Livermore	HASL Ga-01-R	Ba-140	0.00936 ± 0.0124	0.0448	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Ce-141	-0.00115 ± 0.00454	0.0137	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Ce-144	-0.00256 ± 0.0191	0.0603	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Cs-134	-0.00545 ± 0.00541	0.0112	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Cs-137	0.00139 ± 0.00402	0.0129	pCi/m3
N11-0288-001	Livermore	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0288-001	Livermore	DOE RP 710	Gross Beta	±		pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Ru-103	0.000367 ± 0.00382	0.0114	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Ru-106	-0.0903 ± 0.0535	0.0845	pCi/m3
N11-0288-001	Livermore	HASL Ga-01-R	Zr-95	0.00903 ± 0.00837	0.0252	pCi/m3
N11-0288-002	Livermore	HASL Ga-01-R	Iodine-131	-0.00434 ± 0.00512	0.0136	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C. Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

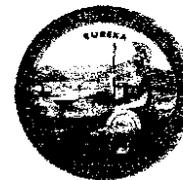


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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0284

Analyst: Analysis Approved By: Analysis Approval Date:

Requestor			
Name:	Organization: Radiologic Health Branch		
Address:			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone:

Site and Sample Information			
Collector's Name:	Date/Time Collected: 03/16/2011 15:40	Date/Time Received: 03/18/2011 11:27	
Site Name: San Luis Obispo / Air	Source Name		
R Number: R 90425	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
62361.4	03/11/2011 09:10	63303.4	03/16/2011 15:40	942.0

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Ba-140	-0.00899 ± 0.0172	0.0374	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Ce-141	0.00501 ± 0.00516	0.0180	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Ce-144	-0.00887 ± 0.0211	0.0628	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Cs-134	0.00144 ± 0.00425	0.0140	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Cs-137	-0.00612 ± 0.00632	0.0145	pCi/m3
N11-0284-001	San Luis Obispo	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0284-001	San Luis Obispo	DOE RP 710	Gross Beta	±		pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Ru-103	0.00114 ± 0.00393	0.0126	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Ru-106	-0.0864 ± 0.0663	0.116	pCi/m3
N11-0284-001	San Luis Obispo	HASL Ga-01-R	Zr-95	0.00455 ± 0.00818	0.0217	pCi/m3
N11-0284-002	San Luis Obispo	HASL Ga-01-R	Iodine-131	0.00113 ± 0.00462	0.0134	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0285

Analyst: I

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name	Organization: Radiologic Health Branch		
Address			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone: _____

Site and Sample Information			
Collector's Name	Date/Time Collected: 03/16/2011 16:05	Date/Time Received: 03/18/2011 11:27	
Site Name: Diablo Canyon / Air	Source Name:		
R Number: R 90426	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
23521.1	03/11/2011 15:35	24379.7	03/16/2011 16:05	858.6

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Ba-140	-0.0000566 ± 0.0193	0.0574	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-141	0.00604 ± 0.00545	0.0197	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-144	-0.0114 ± 0.0235	0.0707	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-134	0.000934 ± 0.00504	0.0146	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-137	-0.000736 ± 0.00503	0.0135	pCi/m3
N11-0285-001	Diablo Canyon NPP	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0285-001	Diablo Canyon NPP	DOE RP 710	Gross Beta	±		pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-103	0.00432 ± 0.00285	0.0127	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-106	-0.0753 ± 0.0710	0.122	pCi/m3
N11-0285-001	Diablo Canyon NPP	HASL Ga-01-R	Zr-95	-0.0154 ± 0.0142	0.0200	pCi/m3
N11-0285-002	Diablo Canyon NPP	HASL Ga-01-R	Iodine-131	-0.00145 ± 0.00511	0.0155	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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Interim Director

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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0277

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name:	Organization: Radiologic Health Branch		
Address			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone: _____

Site and Sample Information			
Collector's Name:	Date/Time Collected: 03/16/2011 10:00	Date/Time Received: 03/17/2011 09:25	
Site Name: Los Angeles / Air	Source Name		
R Number: R 93614	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
84870.8	03/15/2011 09:00	85042.3	03/16/2011 10:00	171.5

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0277-001	Los Angeles	HASL Ga-01-R	Ba-140	-0.0432 ± 0.0898	0.234	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Ce-141	0.0294 ± 0.0230	0.0699	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Ce-144	-0.00981 ± 0.119	0.297	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Cs-134	-0.000141 ± 0.0231	0.0717	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Cs-137	-0.0240 ± 0.0315	0.0739	pCi/m3
N11-0277-001	Los Angeles	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0277-001	Los Angeles	DOE RP 710	Gross Beta	±		pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Ru-103	-0.00946 ± 0.0227	0.0648	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Ru-106	0.148 ± 0.194	0.695	pCi/m3
N11-0277-001	Los Angeles	HASL Ga-01-R	Zr-95	0.0253 ± 0.0479	0.108	pCi/m3
N11-0277-002	Los Angeles	HASL Ga-01-R	Iodine-131	0.00407 ± 0.0243	0.0713	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN, JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0287

Analyst:

Analysis Approved By:

Analysis Approval Date:

Requestor			
Name:	Organization: Radiologic Health Branch		
Address:			
City: Sacramento	State: CA	Zip Code: 95814-5006	Phone:

Site and Sample Information			
Collector's Name:	Date/Time Collected: 03/16/2011 15:31	Date/Time Received: 03/18/2011 11:27	
Site Name: San Diego / Air	Source Name:		
R Number: R 90607	Sample Type: Air Filter		

Air Filter Information				
<u>Start Volume</u>	<u>Start Date/Time</u>	<u>End Volume (M)³</u>	<u>End Date/Time</u>	<u>Net Air Volume (M)³</u>
77725.2	03/11/2011 14:33	78540.7	03/16/2011 15:31	815.5

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA ₉₅	Units
N11-0287-001	San Diego	HASL Ga-01-R	Ba-140	0.0204 ± 0.00722	0.0479	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Ce-141	0.00248 ± 0.00583	0.0197	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Ce-144	-0.0200 ± 0.0257	0.0735	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Cs-134	-0.0263 ± 0.0118	0.0165	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Cs-137	0.0106 ± 0.00407	0.0208	pCi/m ³
N11-0287-001	San Diego	DOE RP 710	Gross Alpha	±		pCi/m ³
N11-0287-001	San Diego	DOE RP 710	Gross Beta	±		pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Ru-103	-0.0107 ± 0.00637	0.0120	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Ru-106	-0.0315 ± 0.0542	0.139	pCi/m ³
N11-0287-001	San Diego	HASL Ga-01-R	Zr-95	0.00270 ± 0.0115	0.0296	pCi/m ³
N11-0287-002	San Diego	HASL Ga-01-R	Iodine-131	0.00374 ± 0.00445	0.0147	pCi/m ³

1. Precision criteria for these methods were determined to be acceptable.
 2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
 3. MDA₉₅ is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD₉₅ divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD₉₅ is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.