



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

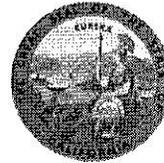
Phone: (510) 620-2911 Fax: (510) 620-2940



FINAL Analysis Results Report for Task ID. 14-0707

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0707-01	Sample ID: R 94753 Sample Type: Vegetation	Time Collected: 10/15/2014 8:58	Sampling Point: Kelp	
Dry Wt/Wet Wt		0.117		
K-40	HASL Ga-01-R	104 +/- 5.30	1.36	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0678

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0678-01	Sample ID: R 94678 Sample Type: Vegetation	Time Collected: 10/6/2014 10:23	Sampling Point: Vegetation	
Dry Wt/Wet Wt		0.0753		
K-40	HASL Ga-01-R	59.4 +/- 2.72	1.09	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0525

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0525-01	Sample ID: R 94514 Sample Type: Biota	Time Collected: 7/15/2014 9:14	Sampling Point: Kelp	
Dry Wt/Wet Wt		0.136		
K-40	HASL Ga-01-R	122 +/- 3.11	1.41	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0487

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0487-01	Sample ID: R 94510 Sample Type: Vegetation	Time Collected: 7/8/2014 10:00	Sampling Point: Vegetation	
Dry Wt/Wet Wt		0.092		
K-40	HASL Ga-01-R	31.8 +/- 0.907	1.14	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0313

Parameter	Method	Result +/- CE	MDA ₉₅	Units
Lab No: 14-0313-01	Sample ID: R 94498 Sample Type: Biota	Time Collected: 5/6/2014 8:12	Sampling Point: Vegetation	
Dry Wt/Wet Wt		0.136		
K-40	HASL Ga-01-R	26.1 +/- 0.707	0.660	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD₉₅ is defined in section 7010G, 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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FINAL Analysis Results Report for Task ID. 14-0236

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0236-01	Sample ID: R 94363 Sample Type: Vegetation	Time Collected: 4/8/2014 11:10	Sampling Point: Kelp	
Dry Wt/Wet Wt		0.134		
K-40	HASL Ga-01-R	81.7 +/- 2.26	1.86	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0235

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0235-01	Sample ID: R 94362 Sample Type: Biota	Time Collected: 4/8/2014	11:10	Sampling Point: Vegetation
Dry Wt/Wet Wt		0.104		
K-40	HASL Ga-01-R	49.1 +/- 1.30	0.959	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0068

Parameter	Method	Result +/- CE	MDA ₉₅	Units
Lab No: 14-0068-01	Sample ID: R 94200 Sample Type: Vegetation	Time Collected: 1/29/2014 9:00	Sampling Point: Kelp	
Dry Wt/Wet Wt		0.104		
K-40	HASL Ga-01-R	151 +/- 3.32	1.99	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD₉₅ is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0024

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0024-01	Sample ID: R 94197 Sample Type: Vegetation	Time Collected: 1/13/2014	Sampling Point: Vegetation	
Dry Wt/Wet Wt		0.1988		
K-40	HASL Ga-01-R	24.9 +/- 0.976	0.485	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, 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.