



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. 14-0777

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0777-01	Sample ID: R 94770 Sample Type: Fish/Shellfish	Time Collected: 11/11/2014 12:00	Sampling Point: Fish	
Dry Wt/Wet Wt		0.255		
K-40	HASL Ga-01-R	15.4 +/- 0.742	0.395	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 Sb is the aquare root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0776

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0776-01	Sample ID: R 94769	Time Collected: 11/11/2014 12:00	Sampling Point: Fish	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.290		
K-40	HASL Ga-01-R	13.7 +/- 0.759	0.407	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0597

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0597-01	Sample ID: R 94669 Sample Type: Biota	Time Collected: 8/21/2014 12:00	Sampling Point: Rockfish	
Dry Wt/Wet Wt		0.253		
K-40	HASL Ga-01-R	14.0 +/- 0.386	0.420	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. 14-0596

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0596-01	Sample ID: R 94668 Sample Type: Biota	Time Collected: 8/21/2014 12:00	Sampling Point: Perch	
Dry Wt/Wet Wt		0.259		
K-40	HASL Ga-01-R	16.5 +/- 0.529	0.323	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. 14-0366

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0366-01	Sample ID: R 94503 Sample Type: Fish/Shellfish	Time Collected: 5/23/2014 12:00	Sampling Point: Sebastes	
Dry Wt/Wet Wt		0.263		
K-40	HASL Ga-01-R	14.4 +/- 0.400	0.448	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0365

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0365-01	Sample ID: R 94502	Time Collected: 5/23/2014 12:00	Sampling Point: Sebastes	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.240		
K-40	HASL Ga-01-R	15.5 +/- 0.503	0.341	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. 14-0088

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0088-01	Sample ID: R 94352	Time Collected: 1/17/2014 11:00	Sampling Point: Perch	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.264		
K-40	HASL Ga-01-R	15.4 +/- 0.371	0.398	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0087

Parameter	Method	Result +/- CE	MDA ₉₅	Units
Lab No: 14-0087-01	Sample ID: R 94351	Time Collected: 1/17/2014 11:00	Sampling Point: Rockfish	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.253		
K-40	HASL Ga-01-R	20.3 +/- 0.792	0.332	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.