



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. 13-0119

| | | | |
|---|---------------------|---------------------------------------|-----|
| Investigator: SRP,DSP,GRC | RHB | Requestor: Roger Lupo | RHB |
| Avila Beach | CA | CDPH - RHB, 1500 Capitol Av., MS 7610 | |
| Phone Number: | | Sacramento CA 95814-5006 | |
| | | Phone Number: 916-440-7955 | |
| Site/Project Name: Diablo Canyon NPP / Biota / 1st Qtr 2013 | | | |
| System No: | Billing Agency: RHB | Samples Received by Lab: 2/13/2013 | |

| Parameter | Method | Result +/- CE | MDA 95 | Units |
|--------------------|----------------------------|--------------------------------|--------------------------|--------------|
| Lab No: 13-0119-01 | Sample ID: R 92382 | Time Collected: 2/5/2013 11:00 | Sampling Point: Sediment | |
| | Sample Type: Soil/Sediment | | | |
| Dry Wt/Wet Wt | | 0.740 | | |
| K-40 | HASL Ga-01-R | 9.24 +/- 0.223 | 0.241 | 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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

| | | |
|---|--|---|
| Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911 | Date Received 2-13-13 | Lab No. (Leave Blank) 13-0119 |
| | Date & Time Sampled 2-5-13 11:00 | Serial Number R 92382 |
| Collector Information Name: Dept./Branch: SRP, DSP, GRC Address: Telephone No.: | Reporting Information Name: Dept./Branch: Address: Telephone No.: | |
| Sample Information System Name / Facility: Sampling Point (s): DCM System No.: | Billing Agency <input type="checkbox"/> DWFOB () <input type="checkbox"/> RHB <input type="checkbox"/> RWQCB () <input type="checkbox"/> DTSC <input type="checkbox"/> DWTPB <input type="checkbox"/> FDB <input type="checkbox"/> DWR <input type="checkbox"/> CDFG <input type="checkbox"/> EMB <input type="checkbox"/> Other (Specify) _____ | |

TYPE OF SAMPLE (Check all applicable boxes)

Drinking Water Groundwater Surface Water Wastewater
 Raw Water Treatment Plant (WTP) Distribution System Point of Use (POU)
 Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted

Air Filters Date/Time _____ Seawater Sludge (Semi-solid Samples)
 Finishing: _____ Milk Soil/Sediment
 Starting: _____ Wipes Biota (Type): _____
 Net (M³) _____ Radon Canister Other: _____
 Air Charcoal Cartridge

COMMENTS: (Cautions, etc.): _____

Field Treatment: Preservatives added: _____ Iced/Frozen: _____ Other: _____
 Field Measurement: _____ mR/hr Radionuclide(s), if known: _____
 Rush/Priority (should be prearranged and have supervisory approval)

ANALYSIS REQUESTED (For questions, please call 510-620-2911)

Gross Alpha Gross Beta Gamma Scan
 Total Uranium Total Beta (LSC) NORM (Gamma)
 Total Radium Tritium (³H) Isotopic Americium / Curium
 Radium-226 Carbon-14 Isotopic Plutonium
 Radium-228 Iodine-131 Isotopic Thorium
 Radon-222 Strontium-89, 90 Isotopic Uranium
 Other (Specify): _____ Nickel-63 Iron-55

CHAIN OF CUSTODY

| | | | | |
|----|-----------------------------|---------------------------|------------------------------|-----------------------------|
| 1. | Date _____ | Name (Print) _____ | Signature _____ | Date _____ |
| | Time Custody Received _____ | Organization _____ | Signature _____ | Time Custody Released _____ |
| 2. | Date _____ | Name (Print) _____ | Signature _____ | Date _____ |
| | Time Custody Received _____ | Organization _____ | Signature _____ | Time Custody Released _____ |
| 3. | Date 2-13-13 | Name (Print) VA | Signature <i>[Signature]</i> | Date _____ |
| | Date 2:40 | Name (Print) DWRLB | Signature <i>[Signature]</i> | Date _____ |
| | Time Custody Received _____ | Organization _____ | Signature _____ | Time Custody Released _____ |

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:
 Acceptable Broken Container Leaked in Transit Improper Container
 Holding Time Exceeded Sample Not Cooled Insufficient Sample

B. Preservatives/Carriers:
 Added While Sampling Added in Laboratory Not Added Not Applicable