

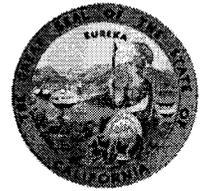


RON CHAPMAN, MD, MPH  
Director

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

FINAL Analysis Results Report for Task ID. N11-0963

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 11/16/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Tom Hook

Date/Time Collected: 10/18/2011 08:24 Date/Time Received: 10/19/2011 08:24

Site Name: ~~San Onofre NPP~~ DCPD

Source Name: Biota / 4th Qtr 2011

R Number: R 92519

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0963-001	Kelp 7G1	HASL Ga-01-R	Dry Wt./Wet Wt.	0.0840 ±		
N11-0963-001	Kelp 7G1	HASL Ga-01-R	K-40	43.2 ± 0.970	0.919	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>10/19/11</u>	Lab No. (Leave Blank) <u>111-0963</u>
	Date & Time Sampled <u>10/16/11 8:24</u>	Serial Number <u>R 92519</u>
<b>Collector Information</b> Name: Dept./Branch: <u>TH/RT</u> Address: Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): <u>DCPP REMP 761</u> System No.:	<b>Billing Agency</b> <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)**

- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Drinking Water  | <input type="checkbox"/> Groundwater                 | <input type="checkbox"/> Surface Water       | <input type="checkbox"/> Wastewater                                 |
| <input checked="" type="checkbox"/> Raw  | <input type="checkbox"/> Water Treatment Plant (WTP) | <input type="checkbox"/> Distribution System | <input type="checkbox"/> Point of Use (POU)                         |
| <input type="checkbox"/> Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxizone / Fluoridated / Coagulated / pH Adjusted |  |  |   |
| <input type="checkbox"/> Air Filters   | Date/Time  | <input type="checkbox"/> Seawater            | <input type="checkbox"/> Sludge (Semi-solid Samples)                |
| Finishing: _____   | _____  | <input type="checkbox"/> Milk                | <input type="checkbox"/> Soil/Sediment                              |
| Starting: _____  | _____  | <input type="checkbox"/> Wipes               | <input checked="" type="checkbox"/> Biota (Type): <u>Vegetation</u> |
| Net (M <sup>3</sup> ): _____   | _____  | <input type="checkbox"/> Radon Canister      | <input type="checkbox"/> Other: _____                               |
| <input type="checkbox"/> 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)**

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

**CHAIN OF CUSTODY**

1.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
2.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
3.	Date <u>10/19/11</u>	Name (Print) <u>JA</u>	_____	Date _____
	Time Custody Received <u>9:35</u>	Organization <u>DWRLB</u>	Signature <u>Victoria M. Ali</u>	Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

- A. Condition at Time of Receipt:** < 0.01 MR/HR
- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Acceptable            | <input type="checkbox"/> Broken Container  | <input type="checkbox"/> Leaked in Transit   | <input type="checkbox"/> Improper Container |
| <input type="checkbox"/> Holding Time Exceeded | <input type="checkbox"/> Sample Not Cooled | <input type="checkbox"/> Insufficient Sample |   |
- B. Preservatives/Carriers:**
- |   |  |                                    |   |
|---|--|------------------------------------|---|
| <input type="checkbox"/> Added While Sampling | <input type="checkbox"/> Added in Laboratory | <input type="checkbox"/> Not Added | <input type="checkbox"/> Not Applicable |
|---|--|------------------------------------|---|



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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N11-0964

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 11/16/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Tom Hook

Date/Time Collected: 10/17/2011 09:30 Date/Time Received: 10/19/2011 09:35

Site Name: Diablo Canyon NPP

Source Name: Biota / 4th Qtr 2011

R Number: R 92520

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N11-0964-001	Kelp	HASL Ga-01-R	Dry Wt./Wet Wt.	0.122 ±		
N11-0964-001	Kelp	HASL Ga-01-R	K-40	116 ± 2.51	2.20	pCi/g dry wt

- Precision criteria for these methods were determined to be acceptable.
- 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
- 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <b>10/19/11</b>	Lab No. (Leave Blank) <b>N11-0964</b>
	Date & Time Sampled <b>10/17/11 9:30</b>	Serial Number <b>R 92520</b>
<b>Collector Information</b> Name: Dept./Branch: Address:  Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address:  Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DLPP REMP</b> Sampling Point (s): <b>DCM Hst</b>  System No.:	<b>Billing Agency</b> <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)**

<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Groundwater	<input type="checkbox"/> Surface Water	<input type="checkbox"/> Wastewater
<input type="checkbox"/> Raw	<input type="checkbox"/> Water Treatment Plant (WTP)	<input type="checkbox"/> Distribution System	<input type="checkbox"/> Point of Use (POU)
<input type="checkbox"/> Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted			
<input type="checkbox"/> Air Filters	Date/Time	<input type="checkbox"/> Seawater	<input type="checkbox"/> Sludge (Semi-solid Samples)
Finishing: _____	_____	<input type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input type="checkbox"/> Wipes	<input checked="" type="checkbox"/> Biota (Type): <b>Kelp</b>
Net (M <sup>3</sup> ): _____	_____	<input type="checkbox"/> Radon Canister	<input type="checkbox"/> Other: _____
<input type="checkbox"/> 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)**

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

**CHAIN OF CUSTODY**

1.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
2.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
3.	Date <b>10/19/11</b>	Name (Print) <b>UA</b>	_____	Date _____
	Time Custody Received <b>9:35</b>	Organization <b>DWLRB</b>	Signature <b>Antonio M. Alca</b>	Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

**A. Condition at Time of Receipt:** **≤ 0.017/HR**

<input type="checkbox"/> Acceptable	<input type="checkbox"/> Broken Container	<input type="checkbox"/> Leaked in Transit	<input type="checkbox"/> Improper Container
<input type="checkbox"/> Holding Time Exceeded	<input type="checkbox"/> Sample Not Cooled	<input type="checkbox"/> Insufficient Sample	

**B. Preservatives/Carriers:**

<input type="checkbox"/> Added While Sampling	<input type="checkbox"/> Added in Laboratory	<input type="checkbox"/> Not Added	<input type="checkbox"/> Not Applicable
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**≤ 0.01 mR/HR**



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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N11-0738

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 09/22/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Rick Treinen

Date/Time Collected: 07/19/2011 07:50 Date/Time Received: 07/20/2011 11:30

Site Name: Diablo Canyon NPP

Source Name: Biota / 7 G1 / 3rd qtr 2011

R Number: R 91167

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N11-0738-001	Vegetation	HASL Ga-01-R	Dry Wt./Wet Wt.	0.0845 ±		
N11-0738-001	Vegetation	HASL Ga-01-R	K-40	54.0 ± 1.27	0.899	pCi/g dry wt

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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

3rd Quarter 2011

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 7/20/11	Lab No. (Leave Blank) 111-0736
	Date & Time Sampled 7/19/11 7:50	Serial Number R 91167
<b>Collector Information</b> Name: RT/TH Dept./Branch: DCPP Address: Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): 7G1 System No.:	<b>Billing Agency</b> <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): Vegetation
  - Net (M<sup>3</sup>) \_\_\_\_\_       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 (<sup>3</sup>H)       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 _____		Time Custody Released _____
2.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
3.	Date 7/20/11	Name (Print) VA	Signature <u>[Signature]</u>	Date _____
	Time Custody Received 11:30	Organization DWRLB		Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

- 2.0.01 MR/Hr
- 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



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Director

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

Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N11-0739

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 09/22/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Rick Treinen

Date/Time Collected: 07/18/2011 09:30 Date/Time Received: 07/20/2011 11:40

Site Name: Diablo Canyon NPP

Source Name: Biota / DCM / 3rd Qtr 2011

R Number: R 91168

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0739-001	Kelp	HASL Ga-01-R	Dry Wt./Wet Wt.	0.160 ±		
N11-0739-001	Kelp	HASL Ga-01-R	K-40	101 ± 2.24	1.80	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 7/20/11	Lab No. (Leave Blank) N11-0739
	Date & Time Sampled 7/18/2011 9:30	Serial Number R 91168
<b>Collector Information</b> Name: R7/TH Dept./Branch: DCPD Address: Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: N11 Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): DEM System No.:	<b>Billing Agency</b> <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)**

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Drinking Water   | <input type="checkbox"/> Groundwater                 | <input type="checkbox"/> Surface Water       | <input type="checkbox"/> Wastewater                     |
| <input type="checkbox"/> Raw  | <input type="checkbox"/> Water Treatment Plant (WTP) | <input type="checkbox"/> Distribution System | <input type="checkbox"/> Point of Use (POU)             |
| <input type="checkbox"/> Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted |  |  |   |
| <input type="checkbox"/> Air Filters  | Date/Time  | <input type="checkbox"/> Seawater            | <input type="checkbox"/> Sludge (Semi-solid Samples)    |
| Finishing: _____  | _____  | <input type="checkbox"/> Milk                | <input type="checkbox"/> Soil/Sediment                  |
| Starting: _____   | _____  | <input type="checkbox"/> Wipes               | <input checked="" type="checkbox"/> Biota (Type): _____ |
| Net (M <sup>3</sup> ) _____   | _____  | <input type="checkbox"/> Radon Canister      | <input type="checkbox"/> Other: <u>Kelp</u>             |
| <input type="checkbox"/> 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)**

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

**CHAIN OF CUSTODY**

1.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
2.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
3.	Date 7/20/11	Name (Print) <u>UA</u>	Signature <u>[Signature]</u>	Date _____
	Time Custody Received 11:40	Organization <u>DWRLB</u>		Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

- < 0.01 MR/Hr
- A. Condition at Time of Receipt:**
- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Acceptable            | <input type="checkbox"/> Broken Container  | <input type="checkbox"/> Leaked in Transit   | <input type="checkbox"/> Improper Container |
| <input type="checkbox"/> Holding Time Exceeded | <input type="checkbox"/> Sample Not Cooled | <input type="checkbox"/> Insufficient Sample |   |
- B. Preservatives/Carriers:**
- |   |  |                                    |   |
|---|--|------------------------------------|---|
| <input type="checkbox"/> Added While Sampling | <input type="checkbox"/> Added in Laboratory | <input type="checkbox"/> Not Added | <input type="checkbox"/> Not Applicable |
|---|--|------------------------------------|---|



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California Department of Public Health

**Drinking Water and Radiation Laboratory Branch**

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EDMUND G. BROWN JR.  
Governor

**FINAL Analysis Results Report for Task ID. N11-0537**

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 10/11/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Donald Oesterie

Date/Time Collected: 05/02/2011 09:50 Date/Time Received: 05/03/2011 10:00

Site Name: Diablo Canyon NPP

Source Name: Biota / 2nd Qtr 2011

R Number: R90782

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0537-001	Vegetation	HASL Ga-01-R	Dry Wt./Wet Wt.	0.131 ±		
N11-0537-001	Vegetation	HASL Ga-01-R	K-40	38.5 ± 0.951	1.42	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 5/3/11	Lab No. (Leave Blank) N11-0537
	Date & Time Sampled 5/2/11 9:50	Serial Number R 90782
<b>Collector Information</b> Name: Dept./Branch: Address: Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): System No.:	<b>Billing Agency</b> <input type="checkbox"/> DWFOB ( ) <input checked="" 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): Vegetation
  - Net (M<sup>2</sup>) \_\_\_\_\_      \_\_\_\_\_       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 (<sup>3</sup>H)       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) _____	Date _____
	Time Custody Received _____	Organization _____	Signature _____
2.	Date _____	Name (Print) _____	Date _____
	Time Custody Received _____	Organization _____	Signature _____
3.	Date <u>5/3/11</u>	Name (Print) <u>A TAN</u>	Date _____
	Time Custody Received <u>10:00</u>	Organization <u>DWR/RB</u>	Signature <u>Angela Tan</u>
	Time Custody Received _____	Organization _____	Signature _____

**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



RON CHAPMAN, MD, MPH  
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

FINAL Analysis Results Report for Task ID. N11-0481

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 08/19/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Tom Hook

Date/Time Collected: 04/19/2011 09:06 Date/Time Received: 04/21/2011 11:05

Site Name: Diablo Canyon NPP

Source Name: DCNPP / 2nd Qtr 2011

R Number: R91093

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0481-001	Kelp	HASL Ga-01-R	Dry Wt./Wet Wt.	0.107 ±		
N11-0481-001	Kelp	HASL Ga-01-R	K-40	169 ± 3.56	2.13	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 4/21/11	Lab No. (Leave Blank) N11-0481
	Date & Time Sampled 4/19/11 0906	Serial Number R 91093
<b>Collector Information</b> Name: Dept./Branch: TH/RT Address: DCP/DCM Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCP Sampling Point (s): DCM System No.:	<b>Billing Agency</b> <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): kelp  
 Net (M<sup>3</sup>) \_\_\_\_\_     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 (<sup>3</sup>H)     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 <u>4/21/11</u>	Name (Print) <u>A. TAN</u>	Signature <u>Angela Tan</u>	Date _____
	Time Custody Received <u>11:05</u>	Organization <u>DWR/RUB</u>	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

*<0.01 MR/hr.*



RON CHAPMAN, MD, MPH  
Director

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

Drinking Water and Radiation Laboratory Branch

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



EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N11-0373

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 08/18/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Diablo Canyon NPP

Date/Time Collected: 04/04/2011 09:24 Date/Time Received: 04/05/2011 10:00

Site Name: Diablo Canyon NPP

Source Name: Biota / 7G1 / r 2011

R Number: R91075

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0373-001	Vegetation	HASL Ga-01-R	Dry Wt./Wet Wt.	0.0994 ±		
N11-0373-001	Vegetation	HASL Ga-01-R	K-40	35.3 ± 0.811	0.860	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 4/5/11	Lab No. (Leave Blank) N11-0373
	Date & Time Sampled 4/4/11 0924	Serial Number R 91075
<b>Collector Information</b> Name: Dept./Branch: D CPP REMP Address:  Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address:  Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): 7G1-Vegetation  System No.:	<b>Billing Agency</b> <input type="checkbox"/> DWFOB ( ) <input checked="" 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)**

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Drinking Water   | <input type="checkbox"/> Groundwater                 | <input type="checkbox"/> Surface Water       | <input type="checkbox"/> Wastewater                                 |
| <input type="checkbox"/> Raw  | <input type="checkbox"/> Water Treatment Plant (WTP) | <input type="checkbox"/> Distribution System | <input type="checkbox"/> Point of Use (POU)                         |
| <input type="checkbox"/> Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted |  |  |   |
| <input checked="" type="checkbox"/> Air Filters   | Date/Time  | <input type="checkbox"/> Seawater            | <input type="checkbox"/> Sludge (Semi-solid Samples)                |
| Finishing: _____  | _____  | <input type="checkbox"/> Milk                | <input type="checkbox"/> Soil/Sediment                              |
| Starting: _____   | _____  | <input type="checkbox"/> Wipes               | <input checked="" type="checkbox"/> Biota (Type): <u>Vegetation</u> |
| Net (M <sup>3</sup> ) _____   | _____  | <input type="checkbox"/> Radon Canister      | <input type="checkbox"/> Other: _____                               |
| <input type="checkbox"/> 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)**

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

**CHAIN OF CUSTODY**

1.	Date _____	Name (Print) _____	Date _____
	Time Custody Received _____	Organization _____	Signature _____
2.	Date _____	Name (Print) _____	Date _____
	Time Custody Received _____	Organization _____	Signature _____
3.	Date 4/5/11	Name (Print) A. TAN	Date _____
	Time Custody Received 10:50	Organization DWRLB	Signature <u>Angela Tan</u>
			Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

- A. Condition at Time of Receipt: < 0.01 MR/hr
- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Acceptable            | <input type="checkbox"/> Broken Container  | <input type="checkbox"/> Leaked in Transit   | <input type="checkbox"/> Improper Container |
| <input type="checkbox"/> Holding Time Exceeded | <input type="checkbox"/> Sample Not Cooled | <input type="checkbox"/> Insufficient Sample |   |
- B. Preservatives/Carriers:
- |   |  |                                    |   |
|---|--|------------------------------------|---|
| <input type="checkbox"/> Added While Sampling | <input type="checkbox"/> Added in Laboratory | <input type="checkbox"/> Not Added | <input type="checkbox"/> Not Applicable |
|---|--|------------------------------------|---|



Howard Backer, MD, MPH  
Interim Director

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

Drinking Water and Radiation Laboratory Branch

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



EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N11-0258

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 05/25/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Diablo Canyon NPP

Date/Time Collected: 01/25/2011 09:15 Date/Time Received: 02/22/2011 10:52

Site Name: Diablo Canyon / Air

Source Name: Biota / DCPD 1st Qtr 2011

R Number: R91567

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0258-001	Kelp	HASL Ga-01-R	Dry Wt./Wet Wt.	0.112 ±		
N11-0258-001	Kelp	HASL Ga-01-R	K-40	166 ± 3.75	1.89	pCi/g dry wt

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. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> 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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>2/2/11</u>	Lab No. (Leave Blank) <u>N11-0258</u>
	Date & Time Sampled <u>1/25/11 9:15</u>	Serial Number <u>R 91567</u>
<b>Collector Information</b> Name: _____ Dept./Branch: <u>OS/TH</u> Address: <u>DCPP REMP</u> Telephone No.: _____	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: _____ Sampling Point (s): <u>DCM</u> System No.: _____	<b>Billing Agency</b> <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): keep  
 Net (M<sup>3</sup>): \_\_\_\_\_     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 (<sup>3</sup>H)     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

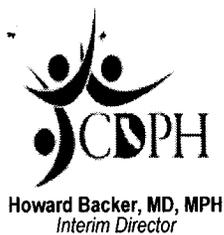
**CHAIN OF CUSTODY**

1.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
2.	Date _____	Name (Print) _____	_____	Date _____
	Time Custody Received _____	Organization _____	Signature _____	Time Custody Released _____
3.	Date _____	Name (Print) _____	_____	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



**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. N11-0035**

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 05/25/2011

**Requestor**

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

**Site and Sample Information**

Collector's Name: Tom Hook

Date/Time Collected: 01/18/2011 07:55 Date/Time Received: 01/19/2011 01:18

Site Name: Diablo Canyon NPP

Source Name: DCPD / Biota / 1st Qtr 2011

R Number: R91572

Sample Type: Vegetation

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N11-0035-001	Vegetation, 7G1	HASL Ga-01-R	Dry Wt./Wet Wt.	0.178 ±		
N11-0035-001	Vegetation, 7G1	HASL Ga-01-R	K-40	29.4 ± 0.781	1.44	pCi/g dry wt

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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 1-19-11	Lab No. (Leave Blank) N11-0035
	Date & Time Sampled 1-18-11 0755	Serial Number R 91572
<b>Collector Information</b> Name: Dept./Branch: TH/RT Address: DC PP REMP Telephone No.:	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: Sampling Point (s): T91 System No.:	<b>Billing Agency</b> <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 (M<sup>3</sup>) \_\_\_\_\_                      \_\_\_\_\_                               Radon Canister                               Other: Vegetation
  - 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 (<sup>3</sup>H)                                       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 1-19-11	Name (Print) S.H.	Signature S.H.	Date _____
	Time Custody Received 1420	Organization DWKLB	Signature _____	Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

- 0.030 mR/hr
- 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