



**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. 12-0766**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / December 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/13/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0766-01	Sample ID: R 96113	Time Collected: 12/13/2012 07:33	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
K-40	EPA 901.1	0.892 +/- 16.8	78.8	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

<b>Drinking Water and Radiation Laboratory Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <i>12-14-12</i>	Lab No. (Leave Blank) <i>12-0766</i>
	Date & Time Sampled <i>12/13/12 0733</i>	Serial Number <b>R 96113</b>

<b>Collector Information</b> Name: <i>Tom Hook</i> Dept./Branch: <i>P.O. Box 50</i> Address: <i>MILA BEACH, CA 93424</i> Telephone No.: <i>(805) 545-4409</i>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:
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<b>Sample Information</b> System Name / Facility: <i>BIO LAB</i> Sampling Point (s): <i>DWI</i> 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) _____
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**TYPE OF SAMPLE** (Check all applicable boxes)

<input checked="" 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 / 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 type="checkbox"/> Biota (Type): _____
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. <i>12/13/12</i> Date <i>0733</i> Time Custody Received	<i>Tom Hook</i> Name (Print) <i>PG&amp;K</i> Organization	<i>[Signature]</i> Signature	<i>12/13/12</i> Date <i>1700</i> Time Custody Released
2. _____ Date _____ Time Custody Received	_____ Name (Print) _____ Organization	_____ Signature	_____ Date _____ Time Custody Released
3. <i>12-14-12</i> Date <i>11:00</i> Time Custody Received	<i>VA</i> Name (Print) <i>DWRCB</i> Organization	<i>[Signature]</i> Signature	_____ Date _____ Time Custody Released

**LABORATORY REMARKS** (Leave Blank)

**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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**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. 12-0767**

Investigator: Tom Hook	RHB	Requestor: Roger Lupo	RHB
P O Box 56		CDPH - RHB, 1500 Capitol Av., MS 7610	
Avila Beach	CA 93424	Sacramento	CA 95814-5006
Phone Number: 805-545-4409		Phone Number: 916-440-7955	
Site/Project Name: Diablo Canyon NPP / December 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/14/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0767-01	Sample ID: R 96102	Time Collected: 12/13/2012 07:33	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-70.3 +/- 148	256	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Drinking Water and Radiation Laboratory Branch
850 Marina Bay Parkway, G164
Richmond, CA 94804
510-620-2911

Date Received: 12-14-12
Lab No. (Leave Blank): 12-000 0767
Date & Time Sampled: 12/13/12 0733
Serial Number: R 96102

Collector Information

Name: Tom Hook
Dept./Branch: P.O. Box 56
Address: AVILA BEACH, CA 93424
Telephone No.: (805) 545-4409

Reporting Information

Name:
Dept./Branch:
Address:

Sample Information

System Name / Facility: BIO LAB
Sampling Point (s): DWI
System No.:

Billing Agency

- DWFOB ( ) RHB RWQCB ( ) DTSC
DWTPB FDB DWR CDFG
EMB 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: TRITIUM SAMPLE
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 (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

Table with 3 rows and 4 columns: Step, Date, Name (Print), Signature, Date, Time Custody Released. Includes entries for Tom Hook and Victoria M. Ch...

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. 12-0768**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / December 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/14/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0768-01	Sample ID: R 96114	Time Collected: 12/13/2012 07:24	Sampling Point: Diablo Creek	
	Sample Type: Surface Water			
K-40	EPA 901.1	1.26 +/- 2.72	65.5	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Drinking Water and Radiation Laboratory Branch
850 Marina Bay Parkway, G164
Richmond, CA 94804
510-620-2911

Date Received: 12-14-12
Lab No. (Leave Blank): 12-0768
Date & Time Sampled: 12/13/12 0724
Serial Number: R 96114

Collector Information
Name: Tom Hook
Dept./Branch: P.O. Box 50
Address: AVILA BEACH, CA 93424
Telephone No.: (805) 545-4409

Reporting Information
Name:
Dept./Branch:
Address:
Telephone No.:

Sample Information
System Name / Facility: DIABLO CREEK
Sampling Point (s): 552
System No.:

Billing Agency
DWFOB ( )
DWTPB
EMB
RHB
FDB
Other (Specify)

TYPE OF SAMPLE (Check all applicable boxes)
Drinking Water
Raw
Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted

Air Filters
Finishing:
Starting:
Net (M^3)
Air Charcoal Cartridge
Seawater
Milk
Wipes
Radon Canister
Sludge (Semi-solid Samples)
Soil/Sediment
Biotin (Type):
Other:

COMMENTS: (Cautions, etc.):
Field Treatment: Preservatives added:
Field Measurement: mR/hr
Rush/Priority (should be prearranged and have supervisory approval)

ANALYSIS REQUESTED (For questions, please call 510-620-2911)
Gross Alpha
Total Uranium
Total Radium
Radium-226
Radium-228
Radon-222
Other (Specify):
Gross Beta
Total Beta (KSC)
Tritium (3H)
Carbon-14
Iodine-131
Strontium-89, 90
Nickel-63
Gamma Scan
NORM (Gamma)
Isotopic Americium / Curium
Isotopic Plutonium
Isotopic Thorium
Isotopic Uranium
Iron-55

CHAIN OF CUSTODY
1. Date: 12/13/12, Name (Print): Tom Hook, Organization: PG&E, Signature: [Signature], Date: 12/13/12, Time Custody Released: 1700
2. Date: , Name (Print): , Organization: , Signature: , Date: , Time Custody Released:
3. Date: 12-14-12, Name (Print): UA, Organization: DWRLB, Signature: [Signature], Date: , Time Custody Released:

LABORATORY REMARKS (Leave Blank)
A. Condition at Time of Receipt:
B. Preservatives/Carriers:

≤ 0.01 uR/HR



**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. 12-0769**

Investigator: Tom Hook	RHB	Requestor: Roger Lupo	RHB
P O Box 56		CDPH - RHB, 1500 Capitol Av., MS 7610	
Avila Beach	CA 93424	Sacramento	CA 95814-5006
Phone Number: 805-545-4409		Phone Number: 916-440-7955	
Site/Project Name: Diablo Canyon NPP / December 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/14/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
<b>Lab No: 12-0769-01</b> Sample ID: R 92355 Sample Type: Surface Water		Time Collected: 12/13/2012 07:24	Sampling Point: Diablo Creek	
Tritium	EPA 906.0	-31.2 +/- 149	256	pCi/L

- (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.

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>12-14-12</u>	Lab No. (Leave Blank) <u>12-0769</u>
	Date & Time Sampled <u>12/13/12 0724</u>	Serial Number <u>R 92355</u>
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 56</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 545-4409</u>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <u>DIABLO CREEK</u> Sampling Point (s): <u>552</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): \_\_\_\_\_  
 Net (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: TRITIUM SAMPLE

Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 <u>12/13/12</u>	Name (Print) <u>Tom Hook</u>	Signature <u>[Signature]</u>	Date <u>12/13/12</u>
	Time Custody Received <u>0724</u>	Organization <u>PG&amp;E</u>		Time Custody Released <u>1700</u>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date <u>12-14-12</u>	Name (Print) <u>UA</u>	Signature <u>[Signature]</u>	Date
	Time Custody Received <u>11:00</u>	Organization <u>DWR/L3</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



**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. 12-0760**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / December 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/12/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0760-01	Sample ID: R 92345 Sample Type: Seawater	Time Collected: 12/11/2012 09:00	Sampling Point: Outfall Water	
K-40	EPA 901.1	350 +/- 17.7	59.9	pCi/L

- (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.

**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 <i>12-12-12</i>	Lab No. (Leave Blank) <i>12-0760</i>
	Date & Time Sampled <i>12/11/12 - 0900</i>	Serial Number <b>R 92345</b>
<b>Collector Information</b> Name: <i>ORLANDO SABI</i> Dept./Branch: <i>P.O. BOX 56</i> Address: <i>AVILA BEACH, CA. 93424</i> Telephone No.: <i>(805) 545-4415</i>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <i>DCPP OUTFALL</i> Sampling Point (s): <i>OUT</i> 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 checked="" 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 type="checkbox"/> Biota (Type): _____
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 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 <i>12/11/12</i>	Name (Print) <i>Orlando Sabi</i>	Signature	Date <i>12/11/12</i>
	Time Custody Received <i>0900</i>	Organization <i>Rock</i>		Time Custody Released <i>1700</i>
2.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
3.	Date <i>12-12-12</i>	Name (Print) <i>UA</i>	Signature	Date _____
	Time Custody Received <i>11:00</i>	Organization <i>DWR/LB</i>		Time Custody Released _____

**LABORATORY REMARKS (Leave Blank)**

**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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**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. 12-0761**

Investigator: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / December 2012		Samples Received by Lab: 12/12/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0761-01	Sample ID: R 92358 Sample Type: Seawater	Time Collected: 12/11/2012 09:00	Sampling Point: Outfall Water	
Tritium	EPA 906.0	107 +/- 152	256	pCi/L

- (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.

**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>12-17-12</u>	Lab No. (Leave Blank) <u>12-0761</u>
	Date & Time Sampled <u>12/11/12 0900</u>	Serial Number <u>R 92358</u>
<b>Collector Information</b> Name: <u>ORLANDO SABI</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA. 93424</u>	<b>Reporting Information</b> Name: Dept./Branch: Address:	
Telephone No.: <u>(905) 545-4415</u>	Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>DCPP OUTFALL</u> Sampling Point (s): System No.: <u>OUT</u>	<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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TITANIUM SAMPLE</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 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: <u>12/11/12</u>	Name (Print): <u>ORLANDO SABI</u>	Signature: <u>[Signature]</u>	Date: <u>12/11/12</u>
	Time Custody Received: <u>0900</u>	Organization: <u>PGTE</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>12-12-12</u>	Name (Print): <u>VA</u>	Signature: <u>[Signature]</u>	Date: _____
	Time Custody Received: <u>11:00</u>	Organization: <u>DWR</u>		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

A. Condition at Time of Receipt: ≤ 0.01 uR/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
---	--	------------------------------------	---



**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. 12-0620**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012		Samples Received by Lab: 11/21/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0620-01 Sample ID: R 92139 Sample Type: Seawater		Time Collected: 11/20/2012 07:30	Sampling Point: Outfall Water	
K-40	EPA 901.1	348 +/- 17.5	59.3	pCi/L

- (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.

**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>11-21-12</b>	Lab No. (Leave Blank) <b>12-0620</b>
	Date & Time Sampled <b>11/20/12 - 0730</b>	Serial Number <b>R 92139</b>
<b>Collector Information</b> Name: <b>Tom Hook</b> Dept./Branch: <b>P.O. Box 50</b> Address: <b>AVILA BEACH, CA 93424</b> Telephone No.: <b>(805) 545-4409</b>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <b>DCPP OUTFALL</b> Sampling Point (s): <b>OUT</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)**

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: \_\_\_\_\_  
 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 <b>11/20/12</b>	Name (Print) <b>Tom Hook</b>	Signature 	Date <b>11/20/12</b>
	Time Custody Received <b>0730</b>	Organization <b>PG&amp;E</b>		Time Custody Released <b>1700</b>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date <b>11-21-12</b>	Name (Print) <b>UA</b>	Signature 	Date
	Time Custody Received <b>11:40</b>	Organization <b>DWR L B</b>	Signature 	Time Custody Released

**LABORATORY REMARKS (Leave Blank)**

**A. Condition at Time of Receipt:** **≤ 0.01 MR/HR**

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. 12-0621**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 11/21/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0621-01 Sample ID: R 92001 Sample Type: Seawater		Time Collected: 11/20/2012 07:30	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-38.9 +/- 144	248	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 11-21-12	Lab No. (Leave Blank) 12-0621
	Date & Time Sampled 11/20/12 - 0730	Serial Number R 92001
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (305) 315-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCPD OUTFALL Sampling Point (s): OUT 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 checked="" 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 type="checkbox"/> Biota (Type): _____              |
| Net (M <sup>3</sup> ) _____   |  | <input checked="" type="checkbox"/> Radon Canister | <input checked="" type="checkbox"/> Other: TRITIUM SAMPLE |
| <input type="checkbox"/> Air Charcoal Cartridge   |  |  |   |

**COMMENTS: (Cautions, etc.):**

- Field Treatment: Preservatives added: \_\_\_\_\_ / 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 (SC)                      | <input type="checkbox"/> NORM (Gamma)                |
| <input type="checkbox"/> Total Radium           | <input checked="" 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 11/20/12	Name (Print) Tom Hook	Signature <i>[Signature]</i>	Date 11/20/12
	Time Custody Received 0730	Organization PAC		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 11-21-12	Name (Print) VA	Signature <i>[Signature]</i>	Date
	Time Custody Received 11:40	Organization DWR/LB		Time Custody Released

**LABORATORY REMARKS (Leave Blank)**

- A. Condition at Time of Receipt:  $\leq 0.01$  MK/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 |
|---|--|------------------------------------|---|



**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. 12-0604**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 11/9/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0604-01 Sample ID: R 92138 Sample Type: Drinking Water		Time Collected: 11/8/2012 10:15	Sampling Point: Bio Lab Sink	
K-40	EPA 901.1	3.81 +/- 17.3	81.3	pCi/L

- (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.

**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>11-9-12</u>	Lab No. (Leave Blank) <u>12-0604</u>
	Date & Time Sampled <u>11/8/12 1015</u>	Serial Number <u>R 92138</u>
<b>Collector Information</b> Name: <u>ORLANDO SABI</u> Dept./Branch: <u>P.O. BOX</u> Address: <u>AVILA BEACH, CA. 93424</u> Telephone No.: <u>(705) 545-4415</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DW1</u> System No.:	<b>Billing Agency</b> <input type="checkbox"/> DWFOB ( ) <input type="checkbox"/> RHB <input type="checkbox"/> RWQCB ( ) <input checked="" 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 / Peroxizone / 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: \_\_\_\_\_  
 Air Charcoal Cartridge

**COMMENTS: (Cautions, etc.):**

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (ASC)     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: <u>11/8/12</u>	Name (Print): <u>ORLANDO SABI</u>	Signature:	Date: <u>11/8/12</u>
	Time Custody Received: <u>1015</u>	Organization: <u>PG&amp;E</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>11-9-12</u>	Name (Print): <u>VA</u>	Signature: _____	Date: _____
	Time Custody Received: <u>11:00</u>	Organization: <u>DWR/LB</u>	Signature: _____	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**A. Condition at Time of Receipt:** ≤ 0.01 uR/hr  
 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. 12-0605

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012		Samples Received by Lab: 11/9/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0605-01	Sample ID: R 91947	Time Collected: 11/8/2012 10:15	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-3.89 +/- 144	248	pCi/L

- (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.

**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>11-9-12</u>	Lab No. (Leave Blank) <u>12-0605</u>
	Date & Time Sampled <u>11/8/12 - 1015</u>	Serial Number <b>R 91947</b>
<b>Collector Information</b> Name: <u>TOM HOOK</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 315-4409</u>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DW1</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 checked="" 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 type="checkbox"/> Biota (Type): _____                     |
| Net (M <sup>3</sup> ) _____   | _____  | <input type="checkbox"/> Radon Canister      | <input checked="" type="checkbox"/> Other: <u>NATURAL SAMPLE</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)**

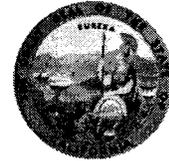
- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Gross Alpha            | <input type="checkbox"/> Gross Beta                           | <input type="checkbox"/> Gamma Scan                  |
| <input type="checkbox"/> Total Uranium          | <input type="checkbox"/> Total Beta (SC)                      | <input type="checkbox"/> NORM (Gamma)                |
| <input type="checkbox"/> Total Radium           | <input checked="" 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: <u>11/8/12</u>	Name (Print): <u>TOM HOOK</u>	Signature: <u>[Signature]</u>	Date: <u>11/8/12</u>
	Time Custody Received: <u>1015</u>	Organization: <u>PLC</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>11/9/12</u>	Name (Print): <u>UA</u>	Signature: <u>[Signature]</u>	Date: _____
	Time Custody Received: <u>1000</u>	Organization: <u>DWR/LB</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 |
|---|--|------------------------------------|---|



**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. 12-0606**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 11/9/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0606-01	Sample ID: R 92140 Sample Type: Surface Water	Time Collected: 11/8/2012 09:26	Sampling Point: Diablo Creek	
K-40	EPA 901.1	-2.93 +/- 12.6	59.7	pCi/L

- (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.

**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>11-9-12</b>	Lab No. (Leave Blank) <b>12-0506 0606</b>
	Date & Time Sampled <b>11/8/12 0926</b>	Serial Number <b>R 92140</b>
<b>Collector Information</b> Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b> Telephone No.: <b>(805) 545-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DIABLO CREEK</b> Sampling Point (s): <b>552</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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ): _____		<input type="checkbox"/> Radon Canister	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Air Charcoal Cartridge			

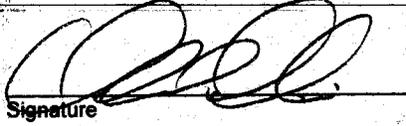
**COMMENTS: (Cautions, etc.):**

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 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: <b>11/8/12</b>	Name (Print): <b>ORLANDO SABI</b>	Signature: 	Date: <b>11/8/12</b>
	Time Custody Received: <b>0926</b>	Organization: _____		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>11-9-12</b>	Name (Print): <b>UA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>11:00</b>	Organization: <b>DWRLB</b>		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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**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. 12-0607**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / November 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 11/9/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
<b>Lab No: 12-0607-01</b> Sample ID: R 92007 Sample Type: Surface Water		Time Collected: 11/8/2012 09:26	Sampling Point: Diablo Creek	
Tritium	EPA 906.0	-91.4 +/- 142	248	pCi/L

- (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.

**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 <i>11-9-12</i>	Lab No. (Leave Blank) <i>12-0607</i>
	Date & Time Sampled <i>11/08/2012 0926</i>	Serial Number <b>R 92007</b>
<b>Collector Information</b> Name: <i>ORLANDO SABI</i> Dept./Branch: <i>P.O. BOX 56</i> Address: <i>AVILA BEACH, CA. 93424</i> Telephone No.: <i>(305) 545-4115</i>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <i>DIABLO CREEK</i> Sampling Point (s): 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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <i>TRITIUM SAMPLE</i>
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS: (Cautions, etc.):** \_\_\_\_\_

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (ASC)	<input type="checkbox"/> NORM (Gamma)
<input type="checkbox"/> Total Radium	<input checked="" 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: <i>11/8/12</i>	Name (Print): <i>ORLANDO SABI</i>	Signature: <i>[Signature]</i>	Date: <i>11/8/12</i>
	Time Custody Received: <i>0926</i>	Organization: <i>PG+E</i>		Time Custody Released: <i>1700</i>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <i>11-6-12</i>	Name (Print): <i>UD</i>	Signature: <i>[Signature]</i>	Date: _____
	Time Custody Received: <i>11:00</i>	Organization: <i>DWRIB</i>		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**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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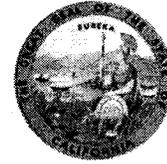
State of California - Health and Human Services Agency

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. 12-0564

Collector: Tom Hook	RHB	Requestor: Roger Lupo	RHB
P O Box 56		CDPH - RHB, 1500 Capitol Av., MS 7610	
Avila Beach	CA 93424	Sacramento	CA 95814-5006
Phone Number: 805-545-4409		Phone Number: 916-440-7955	
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/23/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0564-01	Sample ID: R 92281	Time Collected: 10/18/2012 08:17	Sampling Point: Outfall Water	
	Sample Type: Seawater			
K-40	EPA 901.1	343 +/- 18.4	64.6	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 10-23-12	Lab No. (Leave Blank) 12-0564
	Date & Time Sampled 10/18/12 0817	Serial Number R 92281
<b>Collector Information</b> Name: <u>TOM HOOK</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>DCPP OUTFALL</u> Sampling Point (s): <u>OUT</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 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  | <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 type="checkbox"/> Biota (Type): _____         |   |
| 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: \_\_\_\_\_ Ice/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 <u>10/18/12</u>	Name (Print) <u>TOM HOOK</u>	Signature <u>[Signature]</u>	Date <u>10/22/12</u>
	Time Custody Received <u>0817</u>	Organization <u>PG&amp;E</u>		Time Custody Released <u>1600</u>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date <u>10-23-12</u>	Name (Print) <u>JA</u>	Signature <u>[Signature]</u>	Date
	Time Custody Received <u>2:40</u>	Organization <u>DLWR/LB</u>		Time Custody Released

**LABORATORY REMARKS (Leave Blank)**

- ≥ 0.01 uR/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 |
|---|--|------------------------------------|---|



**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. 12-0565**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/23/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0565-01 Sample ID: R 92287 Sample Type: Seawater		Time Collected: 10/18/2012 08:17	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-298 +/- 145	261	pCi/L

- (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)

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911		Date Received 10-23-12	Lab No. (Leave Blank) 17-0565
		Date & Time Sampled 10/18/12 0817	Serial Number R 92287
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 515-4409		<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCPP OUTFALL Sampling Point (s): System No.: OUT		<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
- Raw
- Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted
- Groundwater
- Water Treatment Plant (WTP)
- Surface Water
- Distribution System
- Wastewater
- Point of Use (POU)
- Air Filters
- Finishing: \_\_\_\_\_ Date/Time \_\_\_\_\_
- Starting: \_\_\_\_\_
- Net (M<sup>3</sup>): \_\_\_\_\_
- Air Charcoal Cartridge
- Seawater
- Milk
- Wipes
- Radon Canister
- Sludge (Semi-solid Samples)
- Soil/Sediment
- Biota (Type): \_\_\_\_\_
- Other: TRITIUM SAMPLE

COMMENTS: (Cautions, etc.):

- Field Treatment: Preservatives added: \_\_\_\_\_ Cooled/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
- Total Uranium
- Total Radium
- Radium-226
- Radium-228
- Radon-222
- Other (Specify): \_\_\_\_\_
- Gross Beta
- Total Beta (BSC)
- Tritium (<sup>3</sup>H)
- Carbon-14
- Iodine-131
- Strontium-89, 90
- Nickel-63
- Gamma Scan
- NORM (Gamma)
- Isotopic Americium / Curium
- Isotopic Plutonium
- Isotopic Thorium
- Isotopic Uranium
- Iron-55

CHAIN OF CUSTODY

1.	Date: 10/18/12 Time Custody Received: 0817	Name (Print): Tom Hook Organization: PG&E Signature: _____	Date: 10/22/12 Time Custody Released: 1600
2.	Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____ Signature: _____	Date: _____ Time Custody Released: _____
3.	Date: 10-23-12 Time Custody Received: 2:40	Name (Print): UA Organization: DU RLB Signature: _____	Date: _____ Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt:  $\leq 0.01$  MR/HR
- Acceptable
  - Holding Time Exceeded
  - Broken Container
  - Sample Not Cooled
  - Leaked in Transit
  - Insufficient Sample
  - Improper Container
- 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. 12-0525**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/16/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0525-01	Sample ID: R 92277	Time Collected: 10/15/2012 09:25	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
K-40	EPA 901.1	9.80 +/- 12.2	56.9	pCi/L

- (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.

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 10-16-12	Lab No. (Leave Blank) 12-0525
	Date & Time Sampled 10/15/12-0925	Serial Number R192277
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: BIOLAB Sampling Point (s): DW1 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: \_\_\_\_\_  
 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: 10/15/12	Name (Print): Tom Hook	Signature: [Signature]	Date: 10/15/12
	Time Custody Received: 0925	Organization: PG&E		Time Custody Released: 1600
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 10-16-12	Name (Print): UA	Signature: [Signature]	Date: _____
	Time Custody Received: 14:00	Organization: DWRLB		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



**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. 12-0526**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/16/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0526-01	Sample ID: R 92283	Time Collected: 10/15/2012 09:25	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-166 +/- 149	261	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>10-16-12</u>	Lab No. (Leave Blank) <u>12-0526</u>
	Date & Time Sampled <u>10/15/12 - 0925</u>	Serial Number <u>R 92283</u>
Collector Information Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 50</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 545-4409</u>	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DW1</u> 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 (M<sup>3</sup>) \_\_\_\_\_    \_\_\_\_\_     Other: TRITIUM SAMPLE  
 Air Charcoal Cartridge

**COMMENTS: (Cautions, etc.):**

Field Treatment: Preservatives added: \_\_\_\_\_ Ice/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: <u>10/15/12</u>	Name (Print): <u>Tom Hook</u>	Signature: _____	Date: <u>10/15/12</u>
Time Custody Received: <u>0925</u>	Organization: <u>PG&amp;E</u>	Signature: _____	Time Custody Released: <u>1600</u>
2. Date: _____	Name (Print): _____	Signature: _____	Date: _____
Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3. Date: <u>10-16-12</u>	Name (Print): <u>VA</u>	Signature: _____	Date: _____
Time Custody Received: <u>14:00</u>	Organization: <u>DWR/LB</u>	Signature: <u>Victoria M. ...</u>	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

A. Condition at Time of Receipt: ≤ 0.01 MR/HR

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. 12-0527**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/16/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0527-01 Sample ID: R 92288 Sample Type: Surface Water	R 92288	Time Collected: 10/15/2012 08:30	Sampling Point: Diablo Creek	
K-40	EPA 901.1	-3.60 +/- 17.6	83.4	pCi/L

- Precision criteria for these method 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, 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.

**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 <i>10-16-12</i>	Lab No. (Leave Blank) <i>12-0523</i>
	Date & Time Sampled <i>10/15/12-0830</i>	Serial Number <b>R 92288</b>
<b>Collector Information</b> Name: <i>Tom Hook</i> Dept./Branch: <i>P.O. Box 56</i> Address: <i>AVILA BEACH, CA 93424</i> Telephone No.: <i>(805) 545-4409</i>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <i>DIABLO CREEK</i> Sampling Point (s): <i>552</i> 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 checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Wastewater
<input type="checkbox"/> Raw	<input type="checkbox"/> Water Treatment Plant (WTP)	<input checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input checked="" 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 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: <i>10/15/12</i>	Name (Print): <i>Tom Hook</i>	Signature: _____	Date: <i>10/15/12</i>
	Time Custody Received: <i>0830</i>	Organization: <i>PG&amp;E</i>		Time Custody Released: <i>1600</i>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <i>10-16-12</i>	Name (Print): <i>UA</i>	Signature: _____	Date: _____
	Time Custody Received: <i>14:00</i>	Organization: <i>DWR/LB</i>		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

*≤ 0.01 mR/hr*

<b>A. Condition at Time of Receipt:</b>			
<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>B. Preservatives/Carriers:</b>			
<input type="checkbox"/> Added While Sampling	<input type="checkbox"/> Added in Laboratory	<input type="checkbox"/> Not Added	<input type="checkbox"/> 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. 12-0528**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / October 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 10/16/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0528-01 Sample ID: R 92284 Sample Type: Surface Water		Time Collected: 10/15/2012 08:30	Sampling Point: Diablo Creek	
Tritium	EPA 906.0	-201 +/- 148	261	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>10-16-12</u>	Lab No. (Leave Blank) <u>12-0528</u>
	Date & Time Sampled <u>10/15/12-0830</u>	Serial Number <u>R 92284</u>
Collector Information Name: <u>TOM HOOK</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 345-4409</u>	Reporting Information Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
Sample Information System Name / Facility: <u>DIABLO CREEK</u> Sampling Point (s): <u>552</u> 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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: TITANIUM SAMPLE

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 (T<sub>3</sub>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. <u>10/15/12</u> Date	<u>TOM HOOK</u> Name (Print)	<u>[Signature]</u> Signature	<u>10/15/12</u> Date
<u>0830</u> Time Custody Received	<u>PLSCK</u> Organization		<u>1600</u> Time Custody Released
2. _____ Date	_____ Name (Print)	_____ Signature	_____ Date
_____ Time Custody Received	_____ Organization		_____ Time Custody Released
3. <u>10-16-12</u> Date	<u>UA</u> Name (Print)	<u>[Signature]</u> Signature	_____ Date
<u>14:00</u> Time Custody Received	<u>DWRUB</u> Organization		_____ Time Custody Released

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt: ≤ 0.01 MR/HR

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. 12-0446**

Collector: Tom Hook	RHB	Requestor: Roger Lupo	RHB
P O Box 56		CDPH - RHB, 1500 Capitol Av., MS 7610	
Avila Beach CA 93424		Sacramento CA 95814-5006	
Phone Number: 805-545-4409		Phone Number: 916-440-7955	
Site/Project Name: Diablo Canyon NPP / September 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 9/12/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0446-01	Sample ID: R 92154	Time Collected: 9/11/2012 07:33	Sampling Point: Diablo Creek	
	Sample Type: Surface Water			
K-40	EPA 901.1	-8.64 +/- 16.3	76.9	pCi/L

- (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)

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 9/12/12	Lab No. (Leave Blank) 12-0446
	Date & Time Sampled 9/11/12 0733	Serial Number R 92154
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>PO Box 56</u> Address: <u>Avila Beach, CA 93424</u> Telephone No.: <u>805-545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>DIABLO CREEK</u> Sampling Point (s): <u>552</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 checked="" 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 / 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 type="checkbox"/> Biota (Type): _____         |
| Net (M <sup>3</sup> ) _____  |  | <input checked="" type="checkbox"/> Radon Canister | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Air Charcoal Cartridge  |  |  |  |

**COMMENTS: (Cautions, etc.):**

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

**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 <u>9/11/12</u>	Name (Print) <u>Rick Trainen</u>	Signature 	Date <u>9/11/12</u>
	Time Custody Received <u>0733</u>	Organization <u>PG&amp;E</u>		Time Custody Released <u>1700</u>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date <u>9-12-12</u>	Name (Print) <u>JA</u>	Signature 	Date
	Time Custody Received <u>11:30</u>	Organization <u>DWR/LB</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 uR / HR



**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. 12-0447**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / September 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 9/11/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0447-01 Sample ID: R 92146 Sample Type: Surface Water	R 92146	Time Collected: 9/11/2012 07:33	Sampling Point: Diablo Creek	
Tritium	EPA 906.0	-245 +/- 147	261	pCi/L

- (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.

**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 9-12-12	Lab No. (Leave Blank) 12-0447
	Date & Time Sampled 9/11/12 0733	Serial Number R 92146
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4709	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): System No.: 552	<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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: Tritium Sample
<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: 9/11/12	Name (Print): Rick Trainen	Signature: [Signature]	Date: 9/11/12
	Time Custody Received: 0733	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 9-12-12	Name (Print): VA	Signature: [Signature]	Date: _____
	Time Custody Received: 11:30	Organization: DWRLB		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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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. 12-0448**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / September 2012		Samples Received by Lab: 9/12/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0448-01	Sample ID: R 92784	Time Collected: 9/11/2012 07:50	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
K-40	EPA 901.1	-19.8 +/- 16.1	76.7	pCi/L

- (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)

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 9-12-12	Lab No. (Leave Blank) 12-0444
	Date & Time Sampled 9/11/12 - 0750	Serial Number R 92784
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (705) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: BIO LAB Sampling Point (s): DW1 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 checked="" 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: \_\_\_\_\_  
 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 9/11/12	Name (Print) Tom Hook	Signature <i>[Signature]</i>	Date 9/11/12
	Time Custody Received 0750	Organization RHB		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 9-12-12	Name (Print) UA	Signature <i>[Signature]</i>	Date
	Time Custody Received 11:30	Organization DWR LB		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



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. 12-0449**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / September 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 9/12/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0449-01 Sample ID: R 92059 Sample Type: Drinking Water		Time Collected: 9/11/2012 07:50	Sampling Point: Bio Lab Sink	
Tritium	EPA 906.0	-248 +/- 147	261	pCi/L

- (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 9-12-12	Lab No. (Leave Blank) 12-0449
	Date & Time Sampled 9/11/12 0750	Serial Number R 92059
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach CA, 93424	Reporting Information Name: Dept./Branch: Address:	
Telephone No.: 805-545-4409	Telephone No.:	
Sample Information System Name / Facility: Sampling Point (s): 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
- Raw
- Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted
- Groundwater
- Water Treatment Plant (WTP)
- Surface Water
- Distribution System
- Wastewater
- Point of Use (POU)
- Air Filters
- Finishing: \_\_\_\_\_ Date/Time \_\_\_\_\_
- Starting: \_\_\_\_\_
- Net (M<sup>3</sup>) \_\_\_\_\_
- Air Charcoal Cartridge
- Seawater
- Milk
- Wipes
- Radon Canister
- Sludge (Semi-solid Samples)
- Soil/Sediment
- Biota (Type): \_\_\_\_\_
- Other: Tritium

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

CHAIN OF CUSTODY

1.	Date 9/11/12	Name (Print) Rick Treinen	Signature 	Date 9/11/12
	Time Custody Received 0750	Organization P&E		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 9-12-12	Name (Print) UA	Signature 	Date
	Time Custody Received 11:30	Organization DWR/LB	Signature 	Time Custody Released

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt:  $\leq 0.01$  mR/hr
- Acceptable
  - Holding Time Exceeded
  - Broken Container
  - Sample Not Cooled
  - Leaked in Transit
  - Insufficient Sample
  - Improper Container
- 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. 12-0444**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / September 2012		Samples Received by Lab: 9/11/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0444-01	Sample ID: R 92157 Sample Type: Seawater	Time Collected: 9/10/2012 07:25	Sampling Point: Outfall Water	
K-40	EPA 901.1	324 +/- 22.3	83.5	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <b>9-11-12</b>	Lab No. (Leave Blank) <b>12-0444</b>
	Date & Time Sampled <b>9/10/12 0725</b>	Serial Number <b>R 92157</b>
<b>Collector Information</b> Name: <b>Tom Hook</b> Dept./Branch: <b>PO Box 56</b> Address: <b>Avila Beach, CA 93424</b> Telephone No.: <b>805-545-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DCPP OUTFALL</b> Sampling Point (s): System No.: <b>OUT</b>	<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 checked="" 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 checked="" type="checkbox"/> Seawater       | <input type="checkbox"/> Sludge (Semi-solid Samples) |
| Finishing: _____                                | _____     | <input type="checkbox"/> Milk                      | <input type="checkbox"/> Soil/Sediment               |
| Starting: _____                                 | _____     | <input checked="" type="checkbox"/> Wipes          | <input type="checkbox"/> Biota (Type): _____         |
| Net (M <sup>3</sup> ): _____                    |           | <input checked="" 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 <b>9/10/12</b>	Name (Print) <b>Rick Treinen</b>	Signature 	Date <b>9/10/12</b>
	Time Custody Received <b>0725</b>	Organization <b>PG&amp;E</b>		Time Custody Released <b>1700</b>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	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 |
|---|--|------------------------------------|---|



**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. 12-0445**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / September 2012		Samples Received by Lab: 9/11/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0445-01	Sample ID: R 92147 Sample Type: Seawater	Time Collected: 9/10/2012 07:25	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-187 +/- 148	261	pCi/L

- (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.

**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 <i>12 NOV 9 9-11-12</i>	Lab No. (Leave Blank) <i>12-0445</i>
	Date & Time Sampled <i>9/10/12 0725</i>	Serial Number <i>R 92147</i>
<b>Collector Information</b> Name: <i>Tom Hook</i> Dept./Branch: <i>PO Box 56</i> Address: <i>Avila Beach, CA 93424</i> Telephone No.: <i>805-545-4409</i>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <i>DCPP OUTFALL</i> Sampling Point (s): System No.: <i>OUT</i>	<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 checked="" 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 / Peroxizone / Fluoridated / Coagulated / pH Adjusted			
<input type="checkbox"/> Air Filters	Date/Time	<input checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input checked="" type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <i>Tritium</i>
<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 (ESC)	<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 <i>9/10/12</i>	Name (Print) <i>Rich Trainen</i>	Signature <i>[Signature]</i>	Date <i>9/10/12</i>
	Time Custody Received <i>0725</i>	Organization <i>POBE</i>		Time Custody Released <i>1700</i>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date <i>9-11-12</i>	Name (Print) <i>UA</i>	Signature <i>[Signature]</i>	Date
	Time Custody Received <i>11:30</i>	Organization <i>DWRLB</i>		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
---	--	------------------------------------	---



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. 12-0345

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / August 2012		Samples Received by Lab: 8/15/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0345-01 Sample ID: R 92156 Sample Type: Seawater		Time Collected: 8/14/2012 07:37	Sampling Point: Outfall Water	
K-40	EPA 901.1	336 +/- 17.6	60.9	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <b>8-15-12</b>	Lab No. (Leave Blank) <b>12-0345</b>
	Date & Time Sampled <b>8/14/12 0737</b>	Serial Number <b>R 92156</b>
<b>Collector Information</b> Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b> Telephone No.: <b>(805) 545-4415</b>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <b>DCPP OUTFALL</b> Sampling Point (s): <b>OUT</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 checked="" 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 type="checkbox"/> Biota (Type): _____         |
| Net (M <sup>3</sup> ) _____   | _____  | <input type="checkbox"/> Radon Canister      | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Air Charcoal Cartridge   |  |  |  |

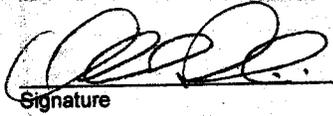
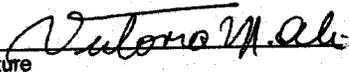
**COMMENTS: (Cautions, etc.):**

- 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 checked="" type="checkbox"/> Gamma Scan       |
| <input type="checkbox"/> Total Uranium          | <input type="checkbox"/> Total Beta (TSC)          | <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: <b>8/14/12</b>	Name (Print): <b>ORLANDO SABI</b>	Signature: 	Date: <b>8/14/12</b>
	Time Custody Received: <b>0737</b>	Organization: <b>PG&amp;E</b>		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>8-15-12</b>	Name (Print): <b>VA</b>	Signature: 	Date: _____
	Time Custody Received: <b>11:30</b>	Organization: <b>DWRLB</b>		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

- 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 |
|---|--|------------------------------------|---|



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. 12-0346**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / August 2012		Samples Received by Lab: 8/15/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0346-01 Sample ID: R 92148 Sample Type: Seawater		Time Collected: 8/14/2012 07:37	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-113.8 +/- 150.0	262.0	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 8-15-12	Lab No. (Leave Blank) 12-0346
	Date & Time Sampled 8/14/12 0737	Serial Number R 92148
Collector Information Name: ORLANDO SABI Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: (805) 545-4415	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DCPP Sampling Point (s): 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
- Raw
- Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxizone / Fluoridated / Coagulated / pH Adjusted
- Groundwater
- Water Treatment Plant (WTP)
- Surface Water
- Distribution System
- Wastewater
- Point of Use (POU)
- Air Filters
- Finishing: \_\_\_\_\_ Date/Time \_\_\_\_\_
- Starting: \_\_\_\_\_
- Net (M<sup>3</sup>) \_\_\_\_\_
- Air Charcoal Cartridge
- Seawater
- Milk
- Wipes
- Radon Canister
- Sludge (Semi-solid Samples)
- Soil/Sediment
- Biota (Type): \_\_\_\_\_
- Other: TRITIUM

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

CHAIN OF CUSTODY

1.	Date 8/14/12	Name (Print) ORLANDO SABI	Signature 	Date 8/14/12
	Time Custody Received 0737	Organization PETS		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 8-15-12	Name (Print) JA	Signature	Date
	Time Custody Received 11:30	Organization DWRLB	Signature 	Time Custody Released

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt:
- Acceptable
  - Holding Time Exceeded
  - Broken Container
  - Sample Not Cooled
  - Leaked in Transit
  - Insufficient Sample
  - Improper Container
- 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. 12-0333**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / August 2012		Samples Received by Lab: 8/8/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0333-01	Sample ID: R 92053 Sample Type: Drinking Water	Time Collected: 8/7/2012 09:25	Sampling Point: Bio Lab Sink	
K-40	EPA 901.1	6.57 +/- 16.3	76.1	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <p style="font-size: 1.5em; text-align: center;">8-8-12</p>	Lab No. (Leave Blank) <p style="font-size: 1.5em; text-align: center;">12-0333</p>
	Date & Time Sampled <p style="font-size: 1.5em; text-align: center;">8/7/12 0925</p>	Serial Number <p style="font-size: 1.5em; text-align: center;">R 92053</p>
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 52</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(305) 545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DW1</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 checked="" 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 checked="" 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  | <input type="checkbox"/> Seawater                    | <input type="checkbox"/> Sludge (Semi-solid Samples)    |   |
| Finishing: _____  | <input checked="" type="checkbox"/> Milk             | <input type="checkbox"/> Soil/Sediment                  |   |
| Starting: _____   | <input type="checkbox"/> Wipes                       | <input type="checkbox"/> Biota (Type): _____            |   |
| Net (M <sup>3</sup> ): _____  | <input checked="" type="checkbox"/> Radon Canister   | <input type="checkbox"/> Other: _____                   |   |
| <input type="checkbox"/> Air Charcoal Cartridge   |  |   |   |

**COMMENTS: (Cautions, etc.):**

- Field Treatment: Preservatives added: \_\_\_\_\_
- Field Measurement: \_\_\_\_\_ mR/hr
- Rush/Priority (should be prearranged and have supervisory approval)
- Radionuclide(s), if known: \_\_\_\_\_

**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 (ESC)          | <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 <u>8/7/12</u>	Name (Print) <u>Tom Hook</u>	Signature 	Date <u>8/7/12</u>
	Time Custody Received <u>0925</u>	Organization <u>PSSE</u>		Time Custody Released <u>1600</u>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date <u>8-8-12</u>	Name (Print) <u>UA</u>	Signature 	Date
	Time Custody Received <u>11:40</u>	Organization <u>DWRLB</u>	Signature 	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 |
|---|--|------------------------------------|---|



**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. 12-0334**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / August 2012		Samples Received by Lab: 8/8/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
<b>Lab No: 12-0334-01</b> Sample ID: R 92058 Sample Type: Drinking Water		Time Collected: 8/7/2012 09:25		Sampling Point: Bio Lab Sink
Tritium	EPA 906.0	-108.0 +/- 150	262	pCi/L

- (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 8-8-12	Lab No. (Leave Blank) 12-0334
	Date & Time Sampled 8/7/12 0925	Serial Number R 92058
Collector Information Name: ORLANDO SABI Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA. 93424	Reporting Information Name: Dept./Branch: Address:	
Telephone No.: 805-545-4415	Telephone No.:	
Sample Information System Name / Facility: Sampling Point (s): 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) _____	
Bio LAB DW1		

TYPE OF SAMPLE (Check all applicable boxes)

<input checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____	_____	<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TRITIUM</u>
<input type="checkbox"/> Air Charcoal Cartridge			

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_ Cooled/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: 8/7/12	Name (Print): ORLANDO SABI	Signature:	Date: 8/7/12
	Time Custody Received: 0925	Organization: PG&E		Time Custody Released: 1600
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 8-8-12	Name (Print): UA	Signature: _____	Date: _____
	Time Custody Received: 11:40	Organization: DWRLB	Signature: _____	Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:  $\leq 0.01$  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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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. 12-0331**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / August 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 8/8/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0331-01 Sample ID: R 92051 Sample Type: Surface Water		Time Collected: 8/7/2012 07:55	Sampling Point: Diablo Creek	
K-40	EPA 901.1	-9.91 +/- 16.1	76.0	pCi/L

- (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.

**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 8-8-12	Lab No. (Leave Blank) 12-0331
	Date & Time Sampled 8/7/12 - 0755	Serial Number R 92051
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: ANLA BEACH, CA 93424 Telephone No.: (707) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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 / Peroxizone / Fluoridated / Coagulated / pH Adjusted
- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Air Filters<br>Finishing: _____ Date/Time _____<br>Starting: _____<br>Net (M <sup>3</sup> ) _____ | <input type="checkbox"/> Seawater<br><input type="checkbox"/> Milk<br><input type="checkbox"/> Wipes<br><input type="checkbox"/> Radon Canister | <input type="checkbox"/> Sludge (Semi-solid Samples)<br><input type="checkbox"/> Soil/Sediment<br><input type="checkbox"/> Biota (Type): _____<br><input type="checkbox"/> Other: _____ |
|--|---|---|
- Air Charcoal Cartridge

**COMMENTS: (Cautions, etc.)**

- Field Treatment: Preservatives added: \_\_\_\_\_ Cooled/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 8/7/12	Name (Print) Tom Hook	Signature 	Date 8/7/12
	Time Custody Received 0755	Organization P&S		Time Custody Released 1600
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 8-8-12	Name (Print) UA	Signature	Date
	Time Custody Received 11:40	Organization DWRUB	Signature 	Time Custody Released

**LABORATORY REMARKS (Leave Blank)**

- 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 |
|---|--|------------------------------------|---|



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. 12-0332

Collector: Tom Hook	RHB	Requestor: Roger Lupo	RHB
P O Box 56		CDPH - RHB, 1500 Capitol Av., MS 7610	
Avila Beach	CA 93424	Sacramento	CA 95814-5006
Phone Number: 805-545-4409		Phone Number: 916-440-7955	
Site/Project Name: Diablo Canyon NPP / August 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 8/8/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0332-01	Sample ID: R 92128	Time Collected: 8/7/2012	07:55	Sampling Point: Diablo Creek
	Sample Type: Surface Water			
Tritium	EPA 906.0	-78.5 +/- 151.1	262.0	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 8-8-12	Lab No. (Leave Blank) 12-0332
	Date & Time Sampled 8/7/12 - 0755	Serial Number R 92128
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 50</u> Address: <u>Avila Beach, CA 93424</u> Telephone No.: <u>(760) 545-4409</u>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <u>DIABLO CREEK</u> Sampling Point (s): <u>552</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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TRITIUM SAMPLE</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 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: <u>8/7/12</u>	Name (Print): <u>Tom Hook</u>	Signature: _____	Date: <u>8/7/12</u>
	Time Custody Received: <u>0755</u>	Organization: <u>PG&amp;E</u>	Signature: _____	Time Custody Released: <u>1100</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: <u>8-8-12</u>	Name (Print): <u>UA</u>	Signature: _____	Date: _____
	Time Custody Received: <u>11:40</u>	Organization: <u>DWR/LB</u>	Signature: <u>Victoria M. Ch...</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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**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. 12-0305**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 7/25/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0305-01 Sample ID: R 91958 Sample Type: Drinking Water		Time Collected: 7/24/2012 08:50	Sampling Point: Bio Lab Sink	
K-40	EPA 901.1	-17.0 +/- 12.3	58.8	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 7-25-12	Lab No. (Leave Blank) 12-0305
	Date & Time Sampled 7/24/12 0850	Serial Number R 91958
Collector Information Name: ORLANDO SABI Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: 805 545-4415	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: BIO LAB Sampling Point (s): DWL 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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: \_\_\_\_\_  
 Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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. <del>7/24/12</del> 7/24/12 Date	ORLANDO SABI Name (Print)		7/24/12 Date
Time Custody Received	PG & E Organization	Signature	1700 Time Custody Released
2. _____ Date	_____ Name (Print)	_____ Signature	_____ Date
Time Custody Received	_____ Organization	_____ Signature	_____ Time Custody Released
3. 7-25-12 Date	UA Name (Print)		_____ Date
14:00 Time Custody Received	DWR LCB Organization	Signature	_____ Time Custody Released

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:  $\leq 0.01$  MR/HR

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. 12-0306**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012		Samples Received by Lab: 7/25/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0306-01	Sample ID: R 92057 Sample Type: Drinking Water	Time Collected: 7/24/2012 08:50	Sampling Point: Bio Lab Sink	
Tritium	EPA 906.0	-1.96 +/- 153	262	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <b>7-25-12</b>	Lab No. (Leave Blank) <b>12-0306</b>
	Date & Time Sampled <b>7/24/12 0850</b>	Serial Number <b>R 92057</b>
<b>Collector Information</b> Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b> Telephone No.: <b>705 592-4415</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>BIO LAB</b> Sampling Point (s): <b>DWL</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 checked="" 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 checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input type="checkbox"/> Other: <b>TRITIUM SAMPLE</b>
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS: (Cautions, etc.):**

Field Treatment: Preservatives added: \_\_\_\_\_ / Cooled/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 (ISC)	<input type="checkbox"/> NORM (Gamma)
<input type="checkbox"/> Total Radium	<input checked="" 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: <b>7/24/12</b>	Name (Print): <b>ORLANDO SABI</b>	Signature: <i>[Signature]</i>	Date: <b>7/24/12</b>
	Time Custody Received: <b>0850</b>	Organization: _____		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>7-25-12</b>	Name (Print): <b>VA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>14:00</b>	Organization: <b>DWRLB</b>	Signature: _____	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**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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**00 MR/HR**



**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. 12-0303**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 12/25/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0303-01 Sample ID: R 92055 Sample Type: Surface Water		Time Collected: 7/24/2012 08:35	Sampling Point: Diablo Creek	
K-40	EPA 901.1	0.0829 +/- 15.9	75.0	pCi/L

- (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.

**REQUEST FOR SAMPLE ANALYSIS (Radiochemical)**

0303

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 7-25-12	Lab No. (Leave Blank) 12-0303
	Date & Time Sampled 7/24/12 0835	Serial Number R 92055
<b>Collector Information</b> Name: TOM HOOK Dept./Branch: P.O. Box 50 Address: AVILA BEACH, CA 94924 Telephone No.: (805) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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 checked="" 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 type="checkbox"/> Biota (Type): _____
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: \_\_\_\_\_ Ice/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: 7/24/12	Name (Print): Tom Hook	Signature: [Signature]	Date: 7/24/12	Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____	Time Custody Released: _____
3.	Date: 7-25-12	Name (Print): UA	Signature: [Signature]	Date: _____	Time Custody Released: _____
	Date: 11:00	Name (Print): DWRLB	Signature: [Signature]	Date: _____	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

A. Condition at Time of Receipt:  $\leq 0.01$  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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**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. 12-0304**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012			
System No:		Billing Agency: RHB	Samples Received by Lab: 7/25/2012

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0304-01	Sample ID: R 92133	Time Collected: 7/24/2012 08:35	Sampling Point: Diablo Creek	
	Sample Type: Surface Water			
Tritium	EPA 906.0	-53.0 +/- 152	262.0	pCi/L

- (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.

**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>7-25-12</u>	Lab No. (Leave Blank) <u>12-0304</u>
	Date & Time Sampled <u>7/24/12 0835</u>	Serial Number <u>R 92133</u>
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 50</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 545-4409</u>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <u>DIABLO CREEK</u> Sampling Point (s): <u>552</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): \_\_\_\_\_  
 Net (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: TIUM SAMPLE

Air Charcoal Cartridge

**COMMENTS: (Cautions, etc.):** \_\_\_\_\_

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (SC)     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: <u>7/24/12</u>	Name (Print): <u>Tom Hook</u>	Signature: _____	Date: <u>7/24/12</u>
	Time Custody Received: _____	Organization: <u>PG&amp;E</u>	Signature: _____	Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: <u>7-25-12</u>	Name (Print): <u>UA</u>	Signature: _____	Date: _____
	Time Custody Received: <u>14:00</u>	Organization: <u>DWR/EB</u>	Signature: <u>[Signature]</u>	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



**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. 12-0262**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012			
System No:		Billing Agency: RHB	Samples Received by Lab: 7/13/2012

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0262-01	Sample ID: R 92012 Sample Type: Seawater	Time Collected: 7/12/2012 07:37	Sampling Point: Outfall Water	
K-40	EPA 901.1	373 +/- 18.4	62.2	pCi/L

- (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 7-13-12	Lab No. (Leave Blank) 12-02602
	Date & Time Sampled 7/12/12 - 0737	Serial Number R 92012
Collector Information Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (905) 545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DCPD OUTFALL Sampling Point (s): OUT 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 / Peroxizone / Fluoridated / Coagulated / pH Adjusted
- |                                      |           |  |  |
|--------------------------------------|-----------|--|--|
| <input type="checkbox"/> Air Filters | Date/Time | <input checked="" type="checkbox"/> Seawater       | <input type="checkbox"/> Sludge (Semi-solid Samples) |
| Finishing: _____                     | _____     | <input checked="" type="checkbox"/> Milk           | <input type="checkbox"/> Soil/Sediment               |
| Starting: _____                      | _____     | <input checked="" type="checkbox"/> Wipes          | <input type="checkbox"/> Biota (Type): _____         |
| Net (M <sup>3</sup> ) _____          |           | <input checked="" type="checkbox"/> Radon Canister | <input type="checkbox"/> 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)

- |   |  |  |
|---|--|--|
| <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 (TSC)          | <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: 7/12/12	Name (Print): Tom Hook	Signature:	Date: 7/12/12
	Time Custody Received: 0737	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 7-13-12	Name (Print): UA	Signature:	Date: _____
	Time Custody Received: 13:00	Organization: DWRIB	Signature:	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 |
|---|--|------------------------------------|---|



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. 12-0263

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / July 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 7/12/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0263-01 Sample ID: R 92132 Sample Type: Seawater		Time Collected: 7/12/2012 07:37	Sampling Point: Outfall Water	
Tritium		102 +/- 156	262	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>7-13-12</u>	Lab No. (Leave Blank) <u>12-0263</u>
	Date & Time Sampled <u>7/12/12 - 0737</u>	Serial Number <u>R 92132</u>
Collector Information Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. Box 50</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(805) 445-4409</u>	Reporting Information Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
Sample Information System Name / Facility: <u>DCPP OUTFALL</u> Sampling Point (s): <u>OUT</u> 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 (M<sup>3</sup>) \_\_\_\_\_      \_\_\_\_\_       Radon Canister       Other: TRITIUM SAMPLE
  - 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 (ESC)       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: <u>7/12/12</u>	Name (Print): <u>Tom Hook</u>	Signature: _____	Date: <u>7/12/12</u>
	Time Custody Received: <u>0737</u>	Organization: <u>DCPP</u>	Signature: _____	Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: <u>7-13-12</u>	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: <u>13:00</u>	Organization: _____	Signature: _____	Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt: < 0.01 MR/HR
- 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. 12-0192**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / June 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 6/12/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0192-01	Sample ID: R 91951 Sample Type: Seawater	Time Collected: 6/11/2012 07:48	Sampling Point: Outfall Water	
K-40	EPA 901.1	386 +/- 18.1	58.9	pCi/L

- (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 6/12/12	Lab No. (Leave Blank) 12-0192
	Date & Time Sampled 6/11/12 0748	Serial Number R 91951
Collector Information Name: Tom Hood Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DCPP OUTFALL Sampling Point (s): OUT 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 (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: 6/11/12 Time Custody Received: 0748	Name (Print): Rich Treinen Organization: PG&E	Signature: [Signature]	Date: 6/11/12 Time Custody Released: 1700
2.	Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____	Signature: _____	Date: _____ Time Custody Released: _____
3.	Date: 6/12/12 Time Custody Received: 11:30	Name (Print): S. Ruben Organization: DWRLB	Signature: [Signature]	Date: _____ 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. 12-0193

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / June 2012		Samples Received by Lab: 6/12/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0193-01	Sample ID: R 91948 Sample Type: Seawater	Time Collected: 6/11/2012 07:48	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-31.2 +/- 155	267	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 6/12/12	Lab No. (Leave Blank) 12-0193
	Date & Time Sampled 6/11/12 0748	Serial Number R 91948
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCPD OUTFALL Sampling Point (s): OUT 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 checked="" 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 type="checkbox"/> Biota (Type): _____              |
| Net (M <sup>3</sup> ) _____   |  | <input type="checkbox"/> Radon Canister      | <input checked="" type="checkbox"/> Other: Tritium Sample |
| <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 checked="" type="checkbox"/> Tritium ( <sup>3</sup> H) | <input type="checkbox"/> Isotopic Americium / Curium |
| <input type="checkbox"/> Radium-226             | <input checked="" 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: 6/11/12	Name (Print): Rick Treinen	Signature: [Signature]	Date: 6/11/12
	Time Custody Received: 0748	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 6/12/12	Name (Print): S. Ruben	Signature: [Signature]	Date: _____
	Time Custody Received: 11:30	Organization: DWRLB		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

- A. Condition at Time of Receipt:**
- |   |  |  |   |
|---|--|--|---|
| <input checked="" type="checkbox"/> Acceptable            | <input type="checkbox"/> Broken Container  | <input type="checkbox"/> Leaked in Transit   | <input type="checkbox"/> Improper Container |
| <input checked="" 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 |
|---|--|------------------------------------|---|



**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. 12-0180**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu CDPH - RHB, 1500 Capitol Avenue, MS 7 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / June 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 6/6/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0180-01	Sample ID: R 92010	Time Collected: 6/5/2012	15:00	Sampling Point: Bio Lab Sink
	Sample Type:			
K-40	EPA 901.1	10.0 +/- 17.3	81.0	pCi/L

- (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.

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>6/6/12</u>	Lab No. (Leave Blank) <u>12-0180</u>
	Date & Time Sampled <u>6/5/12 1500</u>	Serial Number <u>R-92010</u>
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>PO Box 56</u> Address: <u>Anita Beach, CA 93424</u> Telephone No.: <u>805-545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DW1</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): \_\_\_\_\_  
 Net (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: \_\_\_\_\_

Air Charcoal Cartridge

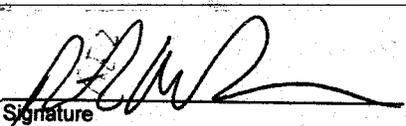
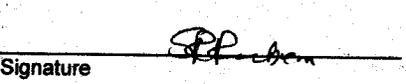
COMMENTS: (Cautions, etc.):

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)

<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 <u>6/5/12</u>	Name (Print) <u>Dick Treinen</u>	Signature 	Date <u>6/5/12</u>
	Time Custody Received <u>1500</u>	Organization <u>PG&amp;E</u>		Date <u>1700</u>
2.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
3.	Date <u>6/6/12</u>	Name (Print) <u>S. Rabon</u>	Signature 	Date _____
	Time Custody Received <u>10:00</u>	Organization <u>DWPLB</u>		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. 12-0181**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / June 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 6/5/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0181-01 Sample ID: R 91950 Sample Type: Drinking Water		Time Collected: 6/5/2012 15:00	Sampling Point: Bio Lab Sink	
Tritium	EPA 906.0	-174 +/- 152	267	pCi/L

- (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 6/6/12	Lab No. (Leave Blank) 12-0181
	Date & Time Sampled 6/5/12 1500	Serial Number R 91950

Collector Information Name: <u>Tom Hook</u> Dept./Branch: <u>PO box 56</u> Address: <u>Avila Beach, CA 93424</u> Telephone No.: <u>805-545-4409</u>	Reporting Information Name: Dept./Branch: Address: Telephone No.:
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Sample Information System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DWI</u> 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) _____
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**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 / 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 type="checkbox"/> Biota (Type): _____
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 checked="" 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: <u>6/5/12</u>	Name (Print): <u>Rick Treinen</u>	Signature: <u>[Signature]</u>	Date: <u>6/5/12</u>
	Time Custody Received: <u>1500</u>	Organization: <u>PG&amp;E</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>6/6/12</u>	Name (Print): <u>S. Eubecu</u>	Signature: <u>[Signature]</u>	Date: _____
	Time Custody Received: <u>10:00</u>	Organization: <u>DWRLB</u>		Time Custody Released: _____

**LABORATORY REMARKS** (Leave Blank)

**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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**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. 12-0178**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu CDPH - RHB, 1500 Capitol Avenue, MS 7 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / June 2012			
System No:		Billing Agency: RHB	Samples Received by Lab: 6/5/2012

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0178-01	Sample ID: R 92015 Sample Type: Drinking Water	Time Collected: 6/5/2012 07:50	Sampling Point: Diablo Creek	
K-40	EPA 901.1	-20.1 +/- 12.9	61.8	pCi/L

- (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.

**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 6/6/12	Lab No. (Leave Blank) 12-0178
	Date & Time Sampled 6/5/12 0750	Serial Number R 92015
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: Diablo Creek Sampling Point (s): System No.: 582	<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 checked="" 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 type="checkbox"/> Biota (Type): _____
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: \_\_\_\_\_ Cooled/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: 6/5/12 Time Custody Received: 0750	Name (Print): Rick Trainen Organization: PG&E	Signature:	Date: 6/5/12 Time Custody Released: 1700
2.	Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____	Signature: _____	Date: _____ Time Custody Released: _____
3.	Date: 6/6/12 Time Custody Received: 10:00	Name (Print): S. Ruben Organization: DWRLB	Signature:	Date: _____ Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**A. Condition at Time of Receipt:**

<input checked="" 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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**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. 12-0179**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / June 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 6/6/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0179-01 Sample ID: R 92781 Sample Type: Drinking Water		Time Collected: 6/5/2012 07:50		Sampling Point: Diablo Creek
Tritium	EPA 906.0	-130 +/- 153	267	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <u>6/6/12</u>	Lab No. (Leave Blank) <u>12-0179</u>
	Date & Time Sampled <u>6/5/12 0750</u>	Serial Number <u>R 92781</u>
Collector Information Name: <u>Tom Hook</u> Dept./Branch: <u>PO Box 56</u> Address: <u>Avila Beach, CA 93424</u> Telephone No.: <u>805-545-4409</u>	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: <u>Diablo Creek</u> Sampling Point (s): System No.: <u>582</u>	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 (M<sup>2</sup>) \_\_\_\_\_     Radon Canister     Other: Fertilizer Sample

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 <u>6/5/12</u>	Name (Print) <u>Rick Treinen</u>	Signature	Date <u>6/5/12</u>
	Time Custody Received <u>0750</u>	Organization <u>PG&amp;E</u>		Time Custody Released <u>1700</u>
2.	Date _____	Name (Print) _____	Signature _____	Date _____
	Time Custody Received _____	Organization _____		Time Custody Released _____
3.	Date <u>6/6/12</u>	Name (Print) <u>S. R. ...</u>	Signature	Date _____
	Time Custody Received <u>10:00</u>	Organization <u>DWR/LB</u>		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. 12-0115**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / May 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 5/15/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0115-01	Sample ID: R 91936	Time Collected: 5/14/2012 08:15	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
K-40	EPA 901.1	36.8 +/- 16.9	78.1	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 5/15/12	Lab No. (Leave Blank) 12-0115
	Date & Time Sampled 5/14/12 0815	Serial Number R 91936
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: BIO LAB Sampling Point (s): DW1 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 (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: 5/14/12	Name (Print): Rick Trainor	Signature: [Signature]	Date: 5/14/12	Time Custody Released: 1700
	Time Custody Received: 0815	Organization: PGE			
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____	Time Custody Released: _____
	Time Custody Received: _____	Organization: _____			
3.	Date: 5/15/12	Name (Print): A. TAN	Signature: [Signature]	Date: 1:51	Time Custody Released: _____
	Time Custody Received: 11:10	Organization: DWRLB			

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt: < 0.01 MR/hr
- 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. 12-0116**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / May 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 5/15/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0116-01	Sample ID: R92774	Time Collected: 5/14/2012 08:15	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-15.1 +/- 156	267	pCi/L

- (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.

**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	Lab No. (Leave Blank)
	Date & Time Sampled	Serial Number
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>PO Box 50</u> Address: <u>Avila Beach, CA 93424</u> Telephone No.: <u>905-545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): System No.: <u>DW1</u>	<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 checked="" type="checkbox"/> Drinking Water  | <input type="checkbox"/> Groundwater                 | <input checked="" type="checkbox"/> Surface Water       | <input type="checkbox"/> Wastewater                              |
| <input type="checkbox"/> Raw  | <input type="checkbox"/> Water Treatment Plant (WTP) | <input checked="" 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 type="checkbox"/> Biota (Type): _____                     |
| Net (M <sup>3</sup> ) _____   | _____  | <input checked="" type="checkbox"/> Radon Canister      | <input checked="" type="checkbox"/> Other: <u>Tritium Sample</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 type="checkbox"/> Gamma Scan                  |
| <input type="checkbox"/> Total Uranium          | <input type="checkbox"/> Total Beta (ESC)                     | <input type="checkbox"/> NORM (Gamma)                |
| <input type="checkbox"/> Total Radium           | <input checked="" 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: <u>5/14/12</u>	Name (Print): <u>Pick Treinen</u>	Signature: <u>[Signature]</u>	Date: <u>5/14/12</u>
	Time Custody Received: <u>0815</u>	Organization: <u>PG&amp;E</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>5/15/12</u>	Name (Print): <u>A. TAN</u>	Signature: <u>[Signature]</u>	Date: _____
	Time Custody Received: <u>11:10</u>	Organization: <u>DWR113</u>		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

- 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 |
|---|--|------------------------------------|---|



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. 12-0117**

Collector: Orlando Sabi P.O Box 56 CA Phone Number:	PG&E	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / May 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 5/15/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0117-01	Sample ID: R 91954 Sample Type: Drinking Water	Time Collected: 5/14/2012 08:00	Sampling Point: Diablo Creek	
K-40	EPA 901.1	-23.2 +/- 12.6	60.7	pCi/L

- Precision criteria for these method 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, 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.

**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 5/15/12	Lab No. (Leave Blank) 12-0117
	Date & Time Sampled 5/14/12 0800	Serial Number R 91954
<b>Collector Information</b> Name: ORLANDO SABI Dept./Branch: B.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: 805 545-4415	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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 checked="" 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 type="checkbox"/> Biota (Type): _____
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 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: 5/14/12	Name (Print): ORLANDO SABI	Signature:	Date: 5/14/12
	Time Custody Received: 0800	Organization: PG & C		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 5/15/12	Name (Print): A. TAN	Signature:	Date: _____
	Time Custody Received: 1110	Organization: DWRLB		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

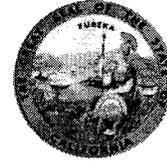
A. Condition at Time of Receipt:

<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
---	--	------------------------------------	---

*Handwritten note: <math> < 0.01 \text{ mR/hr}</math>*



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. 12-0118**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / May 2012		Samples Received by Lab: 5/15/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0118-01	Sample ID: R 92780	Time Collected: 5/14/2012 08:00	Sampling Point: Diablo Creek	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-91.6 +/- 154	267	pCi/L

- (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 5/15/12	Lab No. (Leave Blank) 12-0118-01
	Date & Time Sampled 5/14/12 0800	Serial Number R 92780
Collector Information Name: ORLANDO SABI Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: 805 545-1415	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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)

<input checked="" type="checkbox"/> Drinking Water	<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Wastewater
<input type="checkbox"/> Raw	<input type="checkbox"/> Water Treatment Plant (WTP)	<input checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____	_____	<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TRITIUM SAMPLE</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 type="checkbox"/> Gamma Scan
<input type="checkbox"/> Total Uranium	<input type="checkbox"/> Total Beta (ASC)	<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-59

CHAIN OF CUSTODY

1. Date: 5/14/12	Name (Print): ORLANDO SABI	Signature:	Date: 5/14/12
Time Custody Received: 0800	Organization: PG+E	Signature: _____	Time Custody Released: 1700
2. Date: _____	Name (Print): _____	Signature: _____	Date: _____
Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3. Date: 5/15/12	Name (Print): A TAN	Signature: <u>Diablo Creek</u> <u>Angela TAN</u>	Date: _____
Time Custody Received: 11:10	Organization: DWRLB	Signature: _____	Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

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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**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. 12-0107**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / May 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 5/10/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0107-01	Sample ID: R 91095 Sample Type: Surface Water	Time Collected: 5/8/2012 07:40	Sampling Point: Outfall Water	
K-40	EPA 901.1	376 +/- 18.3	60.8	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 5/10/12	Lab No. (Leave Blank) 12-0107-01
	Date & Time Sampled 5/8/12 0740	Serial Number R 91095
Collector Information Name: TOM HOOK Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: <del>THAS</del> XPP OUTFALL Sampling Point (s): OUT 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)

<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Wastewater
<input type="checkbox"/> Raw	<input type="checkbox"/> Water Treatment Plant (WTP)	<input checked="" 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 checked="" type="checkbox"/> Seawater	<input type="checkbox"/> Sludge (Semi-solid Samples)
Finishing: _____	_____	<input checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input checked="" type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____	_____	<input type="checkbox"/> Radon Canister	<input type="checkbox"/> 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)

<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 (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: 5/8/12 Time Custody Received: 0740	Name (Print): TOM HOOK Organization: PSC	Signature: [Signature]	Date: 5/8/12 Time Custody Released: 1700
2. Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____	Signature: _____	Date: _____ Time Custody Released: _____
3. Date: 5/10/12 Time Custody Received: 11:50	Name (Print): A. TAN Organization: DWRLB	Signature: Angela Tan	Date: 5/10/12 Time Custody Released: 0800

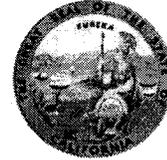
LABORATORY REMARKS (Leave Blank)

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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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. 12-0108**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Roger Lupo CDPH - RHB, 1500 Capitol Av., MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7955	RHB
Site/Project Name: Diablo Canyon NPP / May 2012		Samples Received by Lab: 5/10/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0108-01	Sample ID: R 92003 Sample Type: Seawater	Time Collected: 5/8/2012 07:40	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-114 +/- 153	267	pCi/L

- (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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 5/10/12	Lab No. (Leave Blank) 12-0108-01
	Date & Time Sampled 5/8/12 - 0740	Serial Number R 92003
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-445-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DOPP OUTFALL Sampling Point (s): System No.: OUT	<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 checked="" type="checkbox"/> Seawater	<input type="checkbox"/> Sludge (Semi-solid Samples)
Finishing: _____	_____	<input checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input checked="" type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: Tritium Sample
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS:** (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_ / Cooled/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 checked="" 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: 5/8/12	Name (Print): Rick Treinen	Signature: [Signature]	Date: 5/8/12
Time Custody Received: 0740	Organization: PG&E	Signature: [Signature]	Time Custody Released: 1700
2. Date: _____	Name (Print): _____	Signature: _____	Date: _____
Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3. Date: 5/10/12	Name (Print): A. TAN	Signature: [Signature]	Date: _____
Time Custody Received: 11:00	Organization: DWRLB	Signature: [Signature]	Time Custody Released: _____

**LABORATORY REMARKS** (Leave Blank)

**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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**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. 12-0028**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / April 2012		Samples Received by Lab: 4/11/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0028-01	Sample ID: R 92407	Time Collected: 4/10/2012 07:52	Sampling Point: Bio Lab Sink	
	Sample Type: Drinking Water			
Tritium	EPA 906.0	-112.4 +/- 163.2	284.4	pCi/L

- (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 4-11-12	Lab No. (Leave Blank) 12-0028
	Date & Time Sampled 4/10/12 0752	Serial Number R 92407
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93429 Telephone No.: 805-545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: BIO LAB Sampling Point (s): System No.: DW1	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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: Tritium Sample  
 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 4/10/12	Name (Print) Rick Treinen	Signature 	Date 4/10/12
	Time Custody Received 0752	Organization PG&E	Signature	Time Custody Released 0752 to 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date 4-11-12	Name (Print) UA	Signature 	Date
	Time Custody Received 10:30	Organization DWRLB	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

4. 0.01 MR/HR



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. 12-0027**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / April 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 4/11/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0027-01	Sample ID: R 92538 Sample Type: Drinking Water	Time Collected: 4/10/2012 07:52	Sampling Point: Bio Lab Sink	
K-40	EPA 901.1	7.48 +/- 12.0	56.2	pCi/L

- Precision criteria for these method 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, 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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 4-11-12	Lab No. (Leave Blank) 12-0027
	Date & Time Sampled 4/10/12 0752	Serial Number R 92538
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 50 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 915-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: BIO LAB Sampling Point (s): DW1 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 checked="" 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 checked="" type="checkbox"/> Seawater | <input type="checkbox"/> Sludge (Semi-solid Samples) |
| Finishing: _____  | _____  | <input type="checkbox"/> Milk                | <input type="checkbox"/> Soil/Sediment               |
| Starting: _____   | _____  | <input checked="" type="checkbox"/> Wipes    | <input type="checkbox"/> Biota (Type): _____         |
| 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 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 checked="" 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: 4/10/12	Name (Print): Tom Hook	Signature: [Signature]	Date: 4/10/12
	Time Custody Received: 0752	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 4-11-12	Name (Print): JA	Signature: [Signature]	Date: _____
	Time Custody Received: 10:30	Organization: DWRLB		Time Custody Released: 7:40

**LABORATORY REMARKS (Leave Blank)**

- 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 |
|---|--|------------------------------------|---|

≤ 0.01 MR/HR



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. 12-0054**

Collector: Orlando Sabi P.O Box 56 CA Phone Number:	PG&E	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / April 2012		Samples Received by Lab: 4/18/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0054-01	Sample ID: R 92403 Sample Type: Seawater	Time Collected: 4/17/2012 07:43	Sampling Point: Outfall Water	
Tritium	EPA 906.0	-277.8 +/- 159.2	284.4	pCi/L

- Precision criteria for these method 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, 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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received <b>4-18-12</b>	Lab No. (Leave Blank) <b>12-0054</b>
	Date & Time Sampled <b>4/17/12 0743</b>	Serial Number <b>R 92403</b>

Collector Information Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b>	Reporting Information Name: Dept./Branch: Address:
--	---

Telephone No.: <b>(605) 441-5415</b>	Telephone No.:
Sample Information System Name / Facility: Sampling Point (s): <b>DCPP OUFALL</b>	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) _____
System No.: <b>OUT</b>	

**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  Seawater  Sludge (Semi-solid Samples)  
 Finishing: \_\_\_\_\_ Date/Time: \_\_\_\_\_  Milk  Soil/Sediment  
 Starting: \_\_\_\_\_  Wipes  Biota (Type): \_\_\_\_\_  
 Net (M<sup>3</sup>) \_\_\_\_\_  Radon Canister  Other: **TRITIUM SAMPLE**

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 (SC)  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: <b>4/17/12</b> Time Custody Received: <b>0743</b>	Name (Print): <b>ORLANDO SABI</b> Organization: <b>PBS</b>	Signature:	Date: <b>4/17/12</b> Time Custody Released: <b>1700</b>
2. Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____	Signature: _____	Date: _____ Time Custody Released: _____
3. Date: <b>4-18-12</b> Time Custody Received: <b>10:00</b>	Name (Print): <b>UA</b> Organization: <b>DWR LB</b>	Signature:	Date: _____ 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 MH/HR**



**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. 12-0053**

Collector: Orlando Sabi P.O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4415	PG&E	Requestor: Steve Hsu CDPH - RHB, 1500 Capitol Avenue, MS 7 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: DCNPP / April 2012		Samples Received by Lab: 4/18/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA <sub>95</sub>	Units
Lab No: 12-0053-01 Sample ID: R 91938 Sample Type: Seawater		Time Collected: 4/17/2012 07:43	Sampling Point: Outfall Water	
K-40	EPA 901.1	325 +/- 17.0	58.3	pCi/L

- (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) 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, dependent on the particular radio-nuclide. LLD<sub>95</sub> 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 4-18-12	Lab No. (Leave Blank) 12-0053
	Date & Time Sampled 4/17/12 0743	Serial Number R 91938
Collector Information Name: ORLANDO SABI Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: (805) 545-4415	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: Sampling Point (s): OUT FALL System No.: OUT	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 / Peroxizone / 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: \_\_\_\_\_  
 Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 4/17/12	Name (Print) ORLANDO SABI	Signature 	Date 4/17/12
	Time Custody Received 0743	Organization PG&E		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date 4-18-12	Name (Print) JA	Signature 	Date
	Time Custody Received 10:00	Organization DWR/LB	Signature	Time Custody Released

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:  $\leq 0.01$  MR/HR

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. 12-0026**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / April 2012			
System No:	Billing Agency: RHB	Samples Received by Lab: 4/11/2012	

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0026-01 Sample ID: R 92420 Sample Type: Seawater		Time Collected: 4/10/2012	Sampling Point: Diablo Creek	
Tritium	EPA 906.0	-279.9 +/- 159.1	284.4	pCi/L

- (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.

REQUEST FOR SAMPLE ANALYSIS (Radiochemical)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 4-11-12	Lab No. (Leave Blank) 12-0026
	Date & Time Sampled 4/10/12 0735	Serial Number R 92420
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-945-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DIABLO CREEK Sampling Point (s): 552 System No.:	Billing Agency <input type="checkbox"/> DWFQB ( ) <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: Tritium Sample  
 Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (SC)     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 4/10/12	Name (Print) Rick Treimon	Signature 	Date 4/10/12
	Time Custody Received 0735	Organization PGE		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 4-11-12	Name (Print) VA	Signature 	Date
	Time Custody Received 10:30	Organization DWR/LB	Signature 	Time Custody Released

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:  $\leq 0.01$  mR/HR  
 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. 12-0025**

Collector: Tom Hook P O Box 56 Avila Beach CA 93424 Phone Number: 805-545-4409	RHB	Requestor: Steve Hsu 1500 Capitol Avenue, MS 7610 Sacramento CA 95814-5006 Phone Number: 916-440-7940	RHB
Site/Project Name: Diablo Canyon NPP / April 2012		Samples Received by Lab: 4/11/2012	
System No:	Billing Agency: RHB		

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 12-0025-01 Sample ID: R 92788 Sample Type: Seawater		Time Collected: 4/10/2012 07:35	Sampling Point: Diablo Creek	
K-40	EPA 901.1	12.5 +/- 17.7	82.6	pCi/L

- Precision criteria for these method 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, 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)**

<b>Sanitation and Radiation Laboratories Branch</b> 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 4-11-12	Lab No. (Leave Blank) 12-0025
	Date & Time Sampled 4/10/12 0735N	Serial Number R 92788
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input type="checkbox"/> 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)**

<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 (ESC)	<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: 4/10/12	Name (Print): Rick Treinen	Signature:	Date: 4/10/12
	Time Custody Received: 0735	Organization: PG&E	Signature: _____	Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: 4-11-12	Name (Print): UA	Signature:	Date: _____
	Time Custody Received: 10:30	Organization: DWRLB	Signature:	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**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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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. N12-0211

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 05/11/2012

**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: 03/21/2012 09:30 Date/Time Received: 03/22/2012 09:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 91928

Sample Type: Seawater

<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>
N12-0211-001	Outfall Water	EPA 906.0	Tritium	-274 ± 159	284	pCi/L

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 3-22-12	Lab No. (Leave Blank) 112-0211
	Date & Time Sampled 3/21/12 0930	Serial Number R 91928
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (705) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCPD OUTFALL Sampling Point (s): 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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____	_____	<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TRITIUM SAMPLE</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 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: 3/21/12	Name (Print): Tom Hook	Signature: [Signature]	Date: 3/21/12
	Time Custody Received: 0930	Organization: [Signature]	Signature: [Signature]	Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: 3-22-12	Name (Print): UA	Signature: [Signature]	Date: _____
	Time Custody Received: 9:30	Organization: DWRLB	Signature: [Signature]	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
---	--	------------------------------------	---



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. N12-0210

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 04/03/2012

**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: 03/21/2012 09:30 Date/Time Received: 03/22/2012 09:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 88658

Sample Type: Seawater

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0210-001	Outfall Water	EPA 901.1	K-40	348 ± 17.4	58.4	pCi/L

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 <u>3-22-2012</u>	Lab No. (Leave Blank) <u>N12-0210</u>
	Date & Time Sampled <u>3/21/12 0930</u>	Serial Number <b>R 88658</b>

<b>Collector Information</b> Name: <u>TOM HOOK</u> Dept./Branch: <u>P.O. Box 56</u> Address: <u>AVILA BEACH, CA 93424</u> Telephone No.: <u>(209) 545-4409</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:
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<b>Sample Information</b> System Name / Facility: <u>DCPP OUTFALL</u> Sampling Point (s): <u>OUT</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) _____
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**TYPE OF SAMPLE** (Check all applicable boxes)

<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Groundwater	<input checked="" 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 / Peroxizone / Fluoridated / Coagulated / pH Adjusted			
<input type="checkbox"/> Air Filters	Date/Time	<input checked="" type="checkbox"/> Seawater	<input type="checkbox"/> Sludge (Semi-solid Samples)
Finishing: _____	_____	<input type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input checked="" type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input checked="" type="checkbox"/> Radon Canister	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS:** (Cautions, etc.): \_\_\_\_\_

Field Treatment: Preservatives added: \_\_\_\_\_ Cooled/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: <u>3/21/12</u>	Name (Print): <u>TOM HOOK</u>	Signature: _____	Date: <u>3/21/12</u>
	Time Custody Received: <u>0930</u>	Organization: <u>PG&amp;E</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>3-22-12</u>	Name (Print): <u>UA</u>	Signature: _____	Date: _____
	Time Custody Received: <u>9:30</u>	Organization: <u>DWRLB</u>	Signature: <u>Victoria Malle</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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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. N12-0171

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 04/02/2012

#### 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: 03/06/2012 07:40 Date/Time Received: 03/07/2012 11:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 91926

Sample Type: Drinkingwater

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0171-001	Bio Lab Sink	EPA 906.0	Tritium	-3.83 ± 144	248	pCi/L

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)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 3-7-12	Lab No. (Leave Blank) N12-0171
	Date & Time Sampled 3/6/12 0740	Serial Number R 91926
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach CA 93424 Telephone No.: 805-545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: BIO LAB Sampling Point (s): DWL 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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: Tritium Sample  
 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 (SC)     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 3/6/12	Name (Print) Rick Treisen	Organization RG&E	Signature 	Date 3/6/12	Time Custody Released 1700
2.	Date	Name (Print)	Organization	Signature	Date	Time Custody Released
3.	Date 3-7-12	Name (Print) WA	Organization DWRLB	Signature 	Date	Time Custody Released

LABORATORY REMARKS (Leave Blank)

$\leq 0.01$  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



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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0170

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/15/2012

**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: 03/06/2012 07:40 Date/Time Received: 03/07/2012 11:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 92717

Sample Type: Drinkingwater

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0170-001	Bio Lab Sink	EPA 901.1	K-40	-1.61 ± 12.2	57.6	pCi/L

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 3-7-12	Lab No. (Leave Blank) N12-0170
	Date & Time Sampled 3/6/12 0740	Serial Number R 92717
<b>Collector Information</b> Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach CA 93424 Telephone No.: 805-545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: BIO LAB Sampling Point (s): System No.: DW1	<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: \_\_\_\_\_  
 Starting: \_\_\_\_\_  
 Net (M<sup>3</sup>) \_\_\_\_\_  
 Air Charcoal Cartridge     Milk     Soil/Sediment  
 Radon Canister     Wipes     Biota (Type): \_\_\_\_\_  
 Other: \_\_\_\_\_

**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 (ES)     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: 3/6/12	Name (Print): Rick Treinen	Signature:	Date: 3/6/12
	Time Custody Received: 0740	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 3-7-12	Name (Print): JA	Signature: _____	Date: _____
	Time Custody Received: 11:30	Organization: DWRLB	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

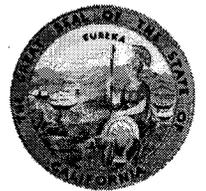


RON CHAPMAN, MD, MPH  
Director

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

Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0173

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 04/02/2012

**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: 03/06/2012 07:25 Date/Time Received: 03/07/2012 11:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 91930

Sample Type: Surface Water

<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>
N12-0173-001	Diablo Creek	EPA 906.0	Tritium	-51.7 ± 143	248	pCi/L

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 <b>3-7-2012</b>	Lab No. (Leave Blank) <b>N12-0173</b>
	Date & Time Sampled <b>3/6/12-0725</b>	Serial Number <b>R 91930</b>
<b>Collector Information</b> Name: <b>TOM HOOK</b> Dept./Branch: Address: <b>P.O. BOX 50 AVILA BEACH, CA 93424</b> Telephone No.: <b>(805) 915-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DIABLO CREEK</b> Sampling Point (s): <b>552</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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <b>TRIM H SAMPLE</b>
<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: <b>3/6/12</b>	Name (Print): <b>TOM HOOK</b>	Signature: _____	Date: <b>3/6/12</b>
	Time Custody Received: <b>0725</b>	Organization: <b>PG&amp;E</b>		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>3-7-12</b>	Name (Print): <b>VIA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>11:30</b>	Organization: <b>DWRLB</b>	Signature: _____	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**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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**≤ 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

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. N12-0172

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/15/2012

**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: 03/06/2012 07:25 Date/Time Received: 03/07/2012 11:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / March 2012

R Number: R 91939

Sample Type: Surface Water

<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>
N12-0172-001	Diablo Creek	EPA 901.1	K-40	17.1 ± 17.0	79.0	pCi/L

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 <b>3-7-12</b>	Lab No. (Leave Blank) <b>N12-0172</b>
	Date & Time Sampled <b>3/6/12-0725</b>	Serial Number <b>R 91939</b>
<b>Collector Information</b> Name: <b>Tom Hook</b> Dept./Branch: <b>P.O. BOX 50</b> Address: <b>AVILA BEACH, CA 93424</b> Telephone No.: <b>(705) 545-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DIABLO CREEK</b> Sampling Point (s): <b>552</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 checked="" 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 checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input checked="" type="checkbox"/> Radon Canister	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS: (Cautions, etc.):** \_\_\_\_\_

Field Treatment: Preservatives added: \_\_\_\_\_ Cooled/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: <b>3/6/12</b>	Name (Print): <b>Tom Hook</b>	Signature: _____	Date: <b>3/6/12</b>
	Time Custody Received: <b>0725</b>	Organization: <b>PG&amp;E</b>		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>3-7-12</b>	Name (Print): <b>UA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>11:30</b>	Organization: <b>DWR/RLB</b>	Signature: _____	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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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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0143

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 04/02/2012

**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: 02/21/2012 07:54 Date/Time Received: 02/22/2012 10:00

Site Name: Diablo Canyon NPP

Source Name: DCNPP / February 2012

R Number: R 92424

Sample Type: Seawater

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0143-001	Outfall Water	EPA 906.0	Tritium	-99.6 ± 142	248	pCi/L

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 <b>2-22-12</b>	Lab No. (Leave Blank) <b>N12-0143</b>
	Date & Time Sampled <b>2/21/12 - 0754</b>	Serial Number <b>R 92424</b>
<b>Collector Information</b> Name: <b>Tom Hook</b> Dept./Branch: <b>PO Box 56</b> Address: <b>Avila Beach, CA 93424</b> Telephone No.: <b>805-545-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DCP OUTFALL</b> Sampling Point (s): <b>OUT</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 checked="" type="checkbox"/> Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxzone / Fluoridated / Coagulated / pH Adjusted			

<input type="checkbox"/> Air Filters	Date/Time	<input checked="" type="checkbox"/> Seawater	<input type="checkbox"/> Sludge (Semi-solid Samples)
Finishing: _____	_____	<input checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <b>TRITIUM SAMPLE</b>
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS: (Cautions, etc.):** \_\_\_\_\_

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (ESCR)	<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: <b>2/21/12</b>	Name (Print): <b>Tom Hook</b>	Signature: _____	Date: <b>2/21/12</b>
	Time Custody Received: <b>0754</b>	Organization: <b>PLC/E</b>	Signature: _____	Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: <b>2-22-12</b>	Name (Print): <b>VIA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>10:00</b>	Organization: <b>DWR/CB</b>	Signature: <b>Dolores M. Olli</b>	Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

**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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**c 0.01 mR/hr**



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Director

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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. N12-0142

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/02/2012

<b>Requestor</b>	
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

<b>Site and Sample Information</b>	
Collector's Name: Tom Hook	Date/Time Collected: 02/21/2012 07:54      Date/Time Received: 02/22/2012 10:00
Site Name: Diablo Canyon NPP	Source Name: DCNPP / February 2012
R Number: R 92718	Sample Type: Seawater

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0142-001	Outfall Water	EPA 901.1	K-40	387 ± 18.8	63.6	pCi/L

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 2-22-12	Lab No. (Leave Blank) N12-0142
	Date & Time Sampled 2/21/12 0754	Serial Number R 92718
<b>Collector Information</b> Name: Tom Hook Dept./Branch: P.O. Box 56 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DCPP OUTFALL Sampling Point (s): OUT 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 / Peroxizone / Fluoridated / Coagulated / pH Adjusted			
<input type="checkbox"/> Air Filters	Date/Time	<input checked="" 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 type="checkbox"/> Biota (Type): _____
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 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: 2/21/12	Name (Print): Tom Hook	Signature:	Date: 2/21/12
	Time Custody Received: 0754	Organization: PG&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 2-22-12	Name (Print): U4	Signature:	Date: _____
	Time Custody Received: 10:00	Organization: DWRLB		Time Custody Released: _____

**LABORATORY REMARKS (Leave Blank)**

A. Condition at Time of Receipt:  $\leq 0.01$  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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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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0104

Analyst: Malkiat Gohal

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/09/2012

**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: 02/07/2012 09:20 Date/Time Received: 02/08/2012 10:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / February 2012

R Number: R 92476

Sample Type: Drinkingwater

<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>
N12-0104-001	Bio Lab Sink	EPA 906.0	Tritium	-31.6 ± 153	264	pCi/L

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>2-8-12</u>	Lab No. (Leave Blank) <u>NI2-0104</u>
	Date & Time Sampled <u>2/7/12-0920</u>	Serial Number <u>R 92476</u>
<b>Collector Information</b> Name: <u>Tom Hook</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA 93429</u> Telephone No.: <u>(805) 545-4409</u>	<b>Reporting Information</b> Name: _____ Dept./Branch: _____ Address: _____ Telephone No.: _____	
<b>Sample Information</b> System Name / Facility: <u>BIO LAB</u> Sampling Point (s): <u>DWI</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 checked="" 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 checked="" type="checkbox"/> Milk	<input type="checkbox"/> Soil/Sediment
Starting: _____	_____	<input checked="" type="checkbox"/> Wipes	<input type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____	_____	<input checked="" type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <u>TRITIUM SAMPLE</u>
<input type="checkbox"/> Air Charcoal Cartridge			

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_ Aged/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 (TSC)	<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: <u>2/7/12</u>	Name (Print): <u>Tom Hook</u>	Signature: _____	Date: <u>2/7/12</u>
	Time Custody Received: <u>0920</u>	Organization: <u>PLS&amp;K</u>	Signature: _____	Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____	Signature: _____	Time Custody Released: _____
3.	Date: <u>2-8-12</u>	Name (Print): <u>VA</u>	Signature: _____	Date: _____
	Time Custody Received: <u>10:30</u>	Organization: <u>DWR/LB</u>	Signature: _____	Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

**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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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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0103

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/23/2012

**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: 02/07/2012 09:20 Date/Time Received: 02/08/2012 10:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / February 2012

R Number: R 92785

Sample Type: Drinkingwater

<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>
N12-0103-001	Bio Lab Sink	EPA 901.1	K-40	2.87 ± 16.5	77.5	pCi/L

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 <b>2-8-12</b>	Lab No. (Leave Blank) <b>N12-0103</b>
	Date & Time Sampled <b>2/7/12-0920</b>	Serial Number <b>R 92785</b>
<b>Collector Information</b> Name: <b>TOM HOOK</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA 93424</b> Telephone No.: <b>(805) 545-4409</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>BIO LAB</b> Sampling Point (s): <b>DW1</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)

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: \_\_\_\_\_  
 Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_    Coded/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 <b>2/7/12</b>	Name (Print) <b>TOM HOOK</b>	Signature 	Date <b>2/7/12</b>
	Time Custody Received <b>0920</b>	Organization <b>PG&amp;E</b>		Time Custody Released <b>1700</b>
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date <b>2-8-12</b>	Name (Print) <b>UA</b>	Signature 	Date
	Time Custody Received <b>10:30</b>	Organization <b>DWRLB</b>	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



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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0102

Analyst: Malkiat Gohal

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/09/2012

**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: Orlando Sabi

Date/Time Collected: 02/07/2012 09:07 Date/Time Received: 02/08/2012 10:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / February 2012

R Number: R 92588

Sample Type: Surface Water

<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>
N12-0102-001	Diablo Creek	EPA 906.0	Tritium	103 ± 156	264	pCi/L

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 <b>2-8-12</b>	Lab No. (Leave Blank) <b>N12-0102</b>
	Date & Time Sampled <b>2/7/12 0907</b>	Serial Number <b>R 92588</b>
<b>Collector Information</b> Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b> Telephone No.: <b>(805) 545-4445</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DIABLO CREEK</b> Sampling Point (s): <b>552</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 checked="" 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 type="checkbox"/> Biota (Type): _____
Net (M <sup>3</sup> ) _____		<input type="checkbox"/> Radon Canister	<input checked="" type="checkbox"/> Other: <b>TRITIUM SAMPLE</b>
<input type="checkbox"/> Air Charcoal Cartridge			

**COMMENTS: (Cautions, etc.):**

Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 (50C)	<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: <b>2/7/12</b>	Name (Print): <b>ORLANDO SABI</b>	Signature:	Date: <b>2/7/12</b>
	Time Custody Received: <b>0907</b>	Organization: <b>PG&amp;E</b>		Time Custody Released: <b>1700</b>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <b>2-8-12</b>	Name (Print): <b>VA</b>	Signature: _____	Date: _____
	Time Custody Received: <b>10:30</b>	Organization: <b>DWR/LB</b>		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



RON CHAPMAN, MD, MPH  
Director

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

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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0101

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/23/2012

**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: Orlando Sabi

Date/Time Collected: 02/07/2012 09:07 Date/Time Received: 02/08/2012 10:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / February 2012

R Number: R 92537

Sample Type: Surface Water

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0101-001	Diablo Creek	EPA 901.1	K-40	-34.9 ± 12.1	58.7	pCi/L

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 <b>2-8-12</b>	Lab No. (Leave Blank) <b>N12-0101</b>
	Date & Time Sampled <b>2/7/12 0907</b>	Serial Number <b>R 92537</b>
<b>Collector Information</b> Name: <b>ORLANDO SABI</b> Dept./Branch: <b>P.O. BOX 56</b> Address: <b>AVILA BEACH, CA. 93424</b> Telephone No.: <b>(805) 545-4415</b>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <b>DIABLO CREEK</b> Sampling Point (s): <b>552</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 checked="" 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 type="checkbox"/> Biota (Type): _____
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: \_\_\_\_\_  
 Field Measurement: \_\_\_\_\_ mR/hr  
 Rush/Priority (should be prearranged and have supervisory approval)

Fed/Frozen: \_\_\_\_\_ Other: \_\_\_\_\_  
 Radionuclide(s), if known: \_\_\_\_\_

**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. <u>2/7/12</u> Date	<u>ORLANDO SABI</u> Name (Print)	<u>[Signature]</u> Signature	<u>2/7/12</u> Date
<u>0907</u> Time Custody Received	<u>PG&amp;E</u> Organization		<u>1700</u> Time Custody Released
2. _____ Date	_____ Name (Print)	_____ Signature	_____ Date
_____ Time Custody Received	_____ Organization		_____ Time Custody Released
3. <u>2-8-12</u> Date	<u>JA</u> Name (Print)	<u>[Signature]</u> Signature	_____ Date
<u>10-30</u> Time Custody Received	<u>DWRLB</u> Organization		_____ Time Custody Released

**LABORATORY REMARKS (Leave Blank)**

**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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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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0051

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/02/2012

**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: 01/17/2012 07:35 Date/Time Received: 01/18/2012 13:15

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92598

Sample Type: Surface Water

<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>
N12-0051-001	Outfall Water	EPA 901.1	K-40	287 ± 19.3	73.9	pCi/L

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)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 1/18/12	Lab No. (Leave Blank) N12-0051
	Date & Time Sampled 1/17/12 0735	Serial Number R 92598
Collector Information Name: <u>Tom Hook</u> Dept./Branch: Address: <u>P.O. Box 56, Avila Beach, CA 93424</u> Telephone No.: <u>805-545-4409</u>	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: <u>DCPP OUTFALL</u> Sampling Point (s): System No.: <u>OUT</u>	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 (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: <u>1/17/12</u>	Name (Print): <u>Rich Treinen</u>	Signature:	Date: <u>1/17/12</u>
	Time Custody Received: <u>0735</u>	Organization: <u>PG&amp;E</u>		Time Custody Released: <u>1700</u>
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: <u>1/18/12</u>	Name (Print): <u>JA</u>	Signature:	Date: _____
	Time Custody Received: <u>11:20</u>	Organization: <u>DWR/LB</u>		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

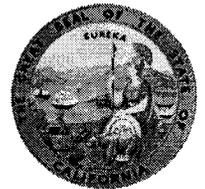


RON CHAPMAN, MD, MPH  
Director

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

Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0052

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/13/2012

**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: 01/17/2012 07:35 Date/Time Received: 01/18/2012 13:15

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92725

Sample Type: Surface Water

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA95</u>	<u>Units</u>
N12-0052-001	Outfall Water	EPA 906.0	Tritium	47.2 ± 165	282	pCi/L

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)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 1/18/12	Lab No. (Leave Blank) N12-0052
	Date & Time Sampled 1/17/12 0735	Serial Number R 92725
Collector Information Name: Tom Hook Dept./Branch: PO Box 56 Address: Avila Beach, CA 93424 Telephone No.: 805-545-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DCPPOUTFALL Sampling Point (s): OUT 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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: Intake Sample  
 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: 1/17/12	Name (Print): Rich Treinen	Signature:	Date: 1/17/12
	Time Custody Received: 0735	Organization: POE		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 1/18/12	Name (Print): VIA	Signature:	Date: _____
	Time Custody Received: 11:20	Organization: DWRLB		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



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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EDMUND G. BROWN JR.  
Governor

FINAL Analysis Results Report for Task ID. N12-0037

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/07/2012

**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: 01/12/2012 15:15 Date/Time Received: 01/17/2012 09:25

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92486

Sample Type: Surface Water

<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>
N12-0037-001	Diablo Creek	EPA 901.1	K-40	11.0 ± 12.8	59.9	pCi/L

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)

Sanitation and Radiation Laboratories Branch 850 Marina Bay Parkway, G164 Richmond, CA 94804 510-620-2911	Date Received 1/17/12	Lab No. (Leave Blank) N12-0037
	Date & Time Sampled 1/12/12 1515	Serial Number R 92486
Collector Information Name: TOM HOOK Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA 93424 Telephone No.: (805) 945-4409	Reporting Information Name: Dept./Branch: Address: Telephone No.:	
Sample Information System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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 (M<sup>3</sup>) \_\_\_\_\_     Radon Canister     Other: \_\_\_\_\_

Air Charcoal Cartridge

COMMENTS: (Cautions, etc.):

Field Treatment: Preservatives added: \_\_\_\_\_     Cooled/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 (ES)     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 1/12/12	Name (Print) TOM HOOK	Signature 	Date 1/12/12
	Time Custody Received 1515	Organization PG&E		Time Custody Released 1700
2.	Date	Name (Print)	Signature	Date
	Time Custody Received	Organization		Time Custody Released
3.	Date 1/17/12	Name (Print) VA	Signature 	Date
	Time Custody Received 9:25	Organization DWRL		Time Custody Released

LABORATORY REMARKS (Leave Blank)

A. Condition at Time of Receipt:  $\leq 0.01$  MR/HR

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. N12-0038

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/13/2012

**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: 01/12/2012 15:15 Date/Time Received: 01/17/2012 09:25

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92731

Sample Type: Surface Water

<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>
N12-0038-001	Diablo Creek	EPA 906.0	Tritium	133 ± 167	282	pCi/L

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 1/17/17	Lab No. (Leave Blank) 112-0038
	Date & Time Sampled 1/12/12 1515	Serial Number R 92731
<b>Collector Information</b> Name: TOM HOOK Dept./Branch: P.O. BOX 50 Address: ALVA BEACH, CA 93424 Telephone No.: (805) 545-4409	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: DIABLO CREEK Sampling Point (s): 552 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
- 
- |                                      |           |   |   |
|--------------------------------------|-----------|---|---|
| <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 type="checkbox"/> Biota (Type): _____              |
| Net (M <sup>3</sup> ) _____          |           | <input type="checkbox"/> Radon Canister | <input checked="" type="checkbox"/> Other: TRITIUM SAMPLE |

COMMENTS: (Cautions, etc.):

- Field Treatment: Preservatives added: \_\_\_\_\_    Cooled/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 checked="" 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-88, 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: 1/12/12	Name (Print): TOM HOOK	Signature: [Signature]	Date: 1/12/12
	Time Custody Received: 1515	Organization: PL&E		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 1/17/12	Name (Print): JA	Signature: [Signature]	Date: _____
	Time Custody Received: 9:25	Organization: DWRLB		Time Custody Released: _____

LABORATORY REMARKS (Leave Blank)

- A. Condition at Time of Receipt: 0.01 uR/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 |
|---|--|------------------------------------|---|



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. N12-0035

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/02/2012

**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: Orlando Sabi

Date/Time Collected: 01/12/2012 14:57 Date/Time Received: 01/17/2012 09:20

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92732

Sample Type: Drinkingwater

<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>
N12-0035-001	Bio Lab Sink	EPA 901.1	K-40	-8.45 ± 12.2	57.9	pCi/L

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 11/17/2012	Lab No. (Leave Blank) NR-0035
	Date & Time Sampled 11/12/12 1457	Serial Number R 92732
<b>Collector Information</b> Name: ORLANDO SABI Dept./Branch: P.O. BOX 56 Address: AVILA BEACH, CA. 93424 Telephone No.: 705 545-4415	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: BIO LAB Sampling Point (s): DW1 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 checked="" 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 type="checkbox"/> Biota (Type): _____
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: \_\_\_\_\_    Cooled/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 (ESC)	<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: 11/12/12	Name (Print): ORLANDO SABI	Signature:	Date: 11/12/12
	Time Custody Received: 1457	Organization: PGTE		Time Custody Released: 1700
2.	Date: _____	Name (Print): _____	Signature: _____	Date: _____
	Time Custody Received: _____	Organization: _____		Time Custody Released: _____
3.	Date: 11/17/12	Name (Print): VA	Signature:	Date: _____
	Time Custody Received: 9:20	Organization: DWRLB	Signature:	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
---	--	------------------------------------	---

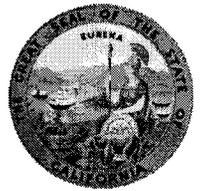


RON CHAPMAN, MD, MPH  
Director

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. N12-0036

Analyst: Sony Cai

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 02/13/2012

**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: Orlando Sabi

Date/Time Collected: 01/12/2012 14:57 Date/Time Received: 01/17/2012 09:25

Site Name: Diablo Canyon NPP

Source Name: DCNPP / January 2012

R Number: R 92719

Sample Type: Drinkingwater

<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>
N12-0036-001	Bio Lab Sink	EPA 906.0	Tritium	85.8 ± 166	282	pCi/L

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 1/17/12	Lab No. (Leave Blank) N12-0036
	Date & Time Sampled 1/12/12 1457	Serial Number R 92719
<b>Collector Information</b> Name: <u>ORLANDO SABI</u> Dept./Branch: <u>P.O. BOX 56</u> Address: <u>AVILA BEACH, CA. 93424</u> Telephone No.: <u>705 545-4415</u>	<b>Reporting Information</b> Name: Dept./Branch: Address: Telephone No.:	
<b>Sample Information</b> System Name / Facility: <u>CAL POLYOR. 1/12/12</u> Sampling Point (s): <u>BIO LAB</u> <u>DW1</u> System No.:	<b>Billing Agency</b> <input checked="" type="checkbox"/> DWFOB ( ) <input type="checkbox"/> RHB <input type="checkbox"/> RWQCB ( ) <input type="checkbox"/> DTSC <input checked="" type="checkbox"/> DWTPB <input type="checkbox"/> FDB <input type="checkbox"/> DWR <input type="checkbox"/> CDFG <input checked="" 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: TRITIUM

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: <u>1/12/12</u> Time Custody Received: <u>1457</u>	Name (Print): <u>ORLANDO SABI</u> Organization: <u>PG+E</u>	Signature: <u>[Signature]</u>	Date: <u>1/12/12</u> Time Custody Released: <u>1700</u>
2.	Date: _____ Time Custody Received: _____	Name (Print): _____ Organization: _____	Signature: _____	Date: _____ Time Custody Released: _____
3.	Date: <u>1/17/12</u> Time Custody Received: <u>9:25</u>	Name (Print): <u>UA</u> Organization: <u>DWRLB</u>	Signature: <u>[Signature]</u>	Date: _____ 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 MK/HR