



Analytical Chemists
April 22, 2011

Laboratory Report

Introduction: This report package contains total of 5 pages divided into 3 sections:

Case Narrative	(2 pages) : An overview of the work performed at FGL.
Sample Results	(2 pages) : Results for each sample submitted.
Quality Control	(1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Bottle 1st Uranium Portion	04/07/2011	04/11/2011	SP 1103577-001	DW
Bottle 2nd Uranium Portion	04/07/2011	04/11/2011	SP 1103577-002	DW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Radio QC

900.0	04/20/2011:205836 All analysis quality controls are within established criteria.
	04/19/2011:204213 All preparation quality controls are within established criteria, except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	04/19/2011:205787 All analysis quality controls are within established criteria.
	04/18/2011:204162 All preparation quality controls are within established criteria.
908.0	04/16/2011:205547 All analysis quality controls are within established criteria.
	04/16/2011:205548 All analysis quality controls are within established criteria.
	04/15/2011:204077 All preparation quality controls are within established criteria.



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Sampled On : April 7, 2011-00:00
Sampled By : Not Available
Received On : April 11, 2011-10:15
Matrix : Drinking Water

Description : Bottle 2nd Uranium Portion

Sample Result - Radio

Constituent	Result \pm Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^{P:1}								
Gross Beta	0.000 \pm 0.991	1.86	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 \pm 0.877	1.65	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 \pm 2.19	1.90	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205548

ND=Non-Detected, PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO₃ pH < 2 * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = (Gross Alpha Result + (0.84 x Error)), CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

April 22, 2011

Certification:: I certify that this data package is in compliance with NELAC standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2011-04-25



APPROVED SOURCE


 Analytical Chemists
 April 22, 2011

 Sampled On : April 12, 2011-00:00
 Sampled By : Not Available
 Received On : April 12, 2011-10:30
 Matrix : Drinking Water

Description : Pitcher Plus

Sample Result - Radio

Constituent	Result \pm Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^P								
Gross Beta	0.697 \pm 1.64	2.51	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 \pm 0.398	0.824	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 \pm 0.681	0.475	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205548

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



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Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Beta	900.0	04/20/2011:205836	CCV CCB	cpm cpm	10150	92.9 % 0.3400	87 - 106 0.56	
Gross Beta	900.0	04/19/2011:204213 (SP 1103747-001)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 46.13 92.26 92.26 300.7	 0.93 107 % 47.6 % 53.3 % 10.5%	 4 75-125 80-130 80-130 ≤30	 435 435
Alpha	903.0	04/19/2011:205787	CCV CCB	cpm cpm	10150	39.8 % 0.0500	38 - 46 0.15	
Total Alpha Radium (226)	903.0	04/18/2011:204162	RgBlk LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 18.16 20.89 20.89 20.89	 0.1 66.3 % 55.1 % 44.6 % 21.1%	 2 52-89 43-92 43-92 ≤35.5	
Alpha	908.0	04/16/2011:205547	CCV CCB	cpm cpm	10160	41.5 % 0.100	38 - 47 0.19	
	908.0	04/16/2011:205548	CCV CCB	cpm cpm	10160	43.7 % 0.100	38 - 47 0.15	
Uranium	908.0	04/15/2011:204077	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 20.86 20.86 20.86 20.86	 0.32 74.8 % 93.3 % 90.2 % 3.4%	 1 54-105 75-125 75-125 ≤20	
Definition CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria. Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result. LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery. MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis. DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								



ENVIRONMENTAL

ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 3, 1996

Sample ID No. SP 605173-01

Laboratory

Signature Lab

Director: *[Signature]*

Name of Sampler: Paul Mead

Employed By: Environmental Svcs

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 06/26/1996-1000 Rec. @ Lab: 06/21/1996-1000 Completed: 06/28/1996

System

System

Number:

Name or Number of Sample Source: 49606151-3 (Un-Filtered)

User ID:

Station Number:

Date/Time of Sample: 9 6 0 6 2 6 1 0 0 0
Y Y M M D D T T T T

Laboratory Code: 5 8 6 7

Phone #(805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	540	
	pCi/L	Radon 222 Counting Error	82302	± 30	

Before

Name or Number of Sample Source: 49606151-4 (Filtered)

User ID:

Station Number:

Date/Time of Sample: 9 6 0 6 2 6 1 0 0 0
Y Y M M D D T T T T

Laboratory Code: 5 8 6 7

Submitted by: FGL Environmental

Phone #(805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	0.0	
	pCi/L	Radon 222 Counting Error	82302	± 10	

After

MCL - Maximum Contaminate Level DLR - Detection Limit for Reporting purposes ND - Not Detected at or above DLR
+ Indicates Secondary Drinking Water Standards

Corporate Offices & Laboratory
PO Box 272 / 853 Corporation Street
Santa Paula, CA 93061-0272
TEL: 805/659-0910
FAX: 805/625-4172

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: 209/442-0101
FAX: 209/442-0423

Field Office
Visalia, CA
TEL: 209/734-0473
FAX: 209/734-8435
Mobile: 209/737-2999


 Analytical Chemists
 April 22, 2011

 Sampled On : April 7, 2011-00:00
 Sampled By : Not Available
 Received On : April 11, 2011-10:15
 Matrix : Drinking Water

Description : Bottle 1st Uranium Portion

Sample Result - Radio

Constituent	Result \pm Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry ^{P-1}								
Gross Beta	0.000 \pm 1.14	1.93	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.551 \pm 1.19	1.65	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	4.61 \pm 4.04	1.79	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205547

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO₃ pH < 2 * PQL adjusted for dilution.

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Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L.

Uranium is less than or equal to 20 pCi/L.

Radium 226 + Radium 228 is less than or equal to 5 pCi/L.

Note: Samples are held for 3-6 months prior to disposal.

Note: Cs-137 utilized in Gross Beta Radioactivity removal test.

In each portion of Cs-137 added 100% was removed.

Michel M. Franco, Radiochemistry Technical Advisor

THE PERIODIC TABLE

H	SYMBOL
1	ATOMIC NUMBER
1.008	ATOMIC WEIGHT
Hydrogen	NAME

() = ESTIMATES

1 H Hydrogen 1.008	2 He Helium 4.00	13 B Boron 10.81	14 C Carbon 12.01	15 N Nitrogen 14.01	16 O Oxygen 16.00	17 F Fluorine 19.00	18 Ne Neon 20.18
3 Li Lithium 6.94	4 Be Beryllium 9.01	5 Na Sodium 22.99	6 Mg Magnesium 24.31	7 Al Aluminum 26.98	8 Si Silicon 28.09	9 P Phosphorus 30.97	10 S Sulfur 32.07
11 Na Sodium 22.99	12 Mg Magnesium 24.31	13 Al Aluminum 26.98	14 Si Silicon 28.09	15 P Phosphorus 30.97	16 S Sulfur 32.07	17 Cl Chlorine 35.45	18 Ar Argon 39.95
19 K Potassium 39.10	20 Ca Calcium 40.08	21 Sc Scandium 44.96	22 Ti Titanium 47.88	23 V Vanadium 50.94	24 Cr Chromium 52.00	25 Mn Manganese 54.94	26 Fe Iron 55.85
37 Rb Rubidium 85.47	38 Sr Strontium 87.62	39 Y Yttrium 88.91	40 Zr Zirconium 91.22	41 Nb Niobium 92.91	42 Mo Molybdenum 95.94	43 Tc Technetium (97.9)	44 Ru Ruthenium 101.07
55 Cs Cesium 132.91	56 Ba Barium 137.33	57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.91	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36
87 Fr Francium 223.02	88 Ra Radium 226.03	89 Ac Actinium 227.03	90 Th Thorium 232.04	91 Pa Protactinium 231.04	92 U Uranium 238.03	93 Np Neptunium 237.05	94 Pu Plutonium (240)
ALKALI METALS	ALKALI EARTH METALS	TRANSITION METALS	TRANSITION METALS	TRANSITION METALS	TRANSITION METALS	TRANSITION METALS	TRANSITION METALS
63 Eu Europium 152.97	64 Gd Gadolinium 157.25	65 Tb Terbium 158.93	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.93	70 Yb Ytterbium 173.04
71 Lu Lutetium 174.97	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.85	75 Re Rhenium 186.21	76 Os Osmium 190.2	77 Ir Iridium 192.22	78 Pt Platinum 195.08
79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
101 Md Mendelevium (257)	102 No Nobelium 259.10	103 Lr Lawrencium 262.11	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (262)	108 Hs Hassium (265)
109 Un Ununennium (289)	110 Uu Ununennium (289)	111 Uuh Ununennium (289)	112 Uub Ununennium (289)	113 Uut Ununennium (289)	114 Uuq Ununennium (289)	115 Uup Ununennium (289)	116 Uuq Ununennium (289)
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443 Uup Ununennium (289)	444 Uuq Ununennium (289)	445 Uup Ununennium (289)	446 Uuq Ununennium (289)	447 Uup Ununennium (289)	448 Uuq Ununennium (289)	449 Uup Ununennium (289)	450 Uuq Ununennium (289)
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463 Uup Ununennium (289)	464 Uuq Ununennium (289)	465 Uup Ununennium (289)	466 Uuq Ununennium (289)	467 Uup Ununennium (289)	468 Uuq Ununennium (289)	469 Uup Ununennium (289)	470 Uuq Ununennium (289)
473 Uup Ununennium (289)	474 Uuq Ununennium (289)	475 Uup Ununennium (289)	476 Uuq Ununennium (289)	477 Uup Ununennium (289)	478 Uuq Ununennium (289)	479 Uup Ununennium (289)	480 Uuq Ununennium (289)
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493 Uup Ununennium (289)	494 Uuq Ununennium (289)	495 Uup Ununennium (289)	496 Uuq Ununennium (289)	497 Uup Ununennium (289)	498 Uuq Ununennium (289)	499	



IOSAT
Potassium Iodide
\$9.99
volume pricing available

- FDA Approved as a nuclear radiation blocking agent
- Individually foil-sealed for single unit dosing

ThyroShield
Liquid Available



NEW

6.5" length



Radiation Water
Filtration Straw
\$34.99
volume pricing available

- Removes radiological contaminants from up to 25 gallons of fresh water.
- Filters Radioactive Iodine I-131, Cesium 137, Strontium, Plutonium, Uranium, Radon and more.



RADTriage
Radiation Detector
\$34.99

- Dept of Homeland Security (DHS) tested and approved
- Fits in wallet or badge holder
- Instant detection of dirty bomb | nuclear radiation
- Freeze it to store for up to 5 years until ready to use



Nukepills Family
Emergency Kit
\$99.99

- Potassium Iodide to block radioactive iodine
- Iodowash™ to decontaminate radioactive iodine
- Radiacwash™ Towelettes to decontaminate radiation



Dirty Bomb
Emergency Kit
\$279.99

- RADTriage™ Radiation Detectors (2)
- Special solutions and wipes for dirty bomb decontamination
- N95 face masks to block radioactive particulate matter

NEW



RADPAK⁷
"Must haves"
for up to 7 people
\$99.99

- 7 Iosat Potassium Iodide packs (14 130mg tabs each pack)
- 7 Radiacwash Towelettes
- 1 RADTriage Radiation Detector



Radiacwash
Towelettes
\$29.99

- Remove radiocontamination from hands and small objects
- Individually packaged towelettes saturated in a special Radiacwash solution
- Box of 100



N95 Face Masks
\$29.99

- NIOSH and FDA Approved
- Individually sealed to maintain freshness and integrity
- FLU protection and to block radioactive particulate matter
- 20 N95 masks per box



Iodowash
Decontamination Kit
\$99.99
Bottles available separately

- Decontaminates radioactive iodine (I-131) using special resin-based solution and Rad Wipes
- Rad Waste bag and gloves for safe cleanup



Rad Wipes
\$29.99
volume pricing available

- Rad Wipes prevent leakage of decontamination fluids to hands, gloves, and countertops