September 16, 2008

Mr. Jack Whitten USNRC Region IV 612 E. Lamar Blvd. Suite 400 Arlington TX 76011-9908

Mr. Wade C. Adams
Health Physicist /Survey Projects
Oak Ridge Institute for Science
and Education (ORISE)
P.O Box 117, Mail Stop 19
Oak Ridge, TN 37831-0117

Mr. John B. Hickman, Project Manager U.S. Nuclear Regulatory Commission Two White Flint North Mail Stop T-8 F5 11555 Rockville Pike Rockville, MD 20852-2738

Gentlemen:

Enclosed are the following items for your information in preparation for the conference call we will have on Tuesday, September 23, 2008 at 10 am (PDT), 1 pm (EDT) to discuss taking near-term soil samples to be used in the Final Status Survey:

- Report "Radiological Status of the Humboldt Bay Repowering Project Soils," prepared by Enercon Services, Inc for PG&E/Humboldt Bay Power Plant, dated September 2008
- DRAFT Report "Historical Site Assessment," prepared by Enercon Services, Inc for PG&E/Humboldt Bay Power Plant, dated September 2008 (DRAFT DOCUMENT – PLEASEDO NOT PLACE IN ADAMS)
- Two aerial photographs of the Humboldt Bay site showing the outline of the location of the new fossil facility (Humboldt Bay Repowering Plant) where the soil samples will be taken near-term for use in the Final Status Survey
- Site Plot Plan used during a PG&E/NRC meeting to discuss Partial Site Characterization, February 21, 2007, in Rockville, MD, showing location of the new fossil facility (Humboldt Bay Repowering Plant) where the soil samples will be taken near-term for use in the Final Status Survey

For the conference call, dial 1-877-481-7043, then hit meeting code *7074440801* Three NRC Region IV inspectors will be onsite at HBPP during the call. If you have any questions, please do not hesitate to contact me.

David Sokolsky

Supervisor of Licensing Humboldt Bay Power Plant

707-444-0801 dds2@pge.com

Radiological Status of the Humboldt Bay Repowering Project Soils

Prepared for

Humboldt Bay Power Plant Pacific Gas & Electric Company Eureka, California

Prepared by



Enercon Services, Inc. 4499 Old William Penn Hwy Murrysville, Pennsylvania

September 2008



September 2, 2008 DGM-08-004

Mr. David Sokolsky Pacific Gas & Electric Company Humboldt Bay Power Plant 1000 King Salmon Avenue Eureka, CA 95503

Subject: Radiological Status of the Humboldt Bay Repowering Project Soils

Dear Mr. Sokolsky:

The intent of this letter is to describe the current radiological status of the soils in the Humboldt Bay Repowering Project (HBRP) area. ENERCON Services, Inc. (ENERCON) has determined that the area has no significant detectable residual contamination from Nuclear Reactor Operations at the Humboldt Bay Power Plant (HBPP). This determination is based upon the review of data from three different sampling efforts of the soils in the HBRP area; specifically, the characterizations performed by IT/Duratek in 1997, ENERCON in 2007, and TRC Solutions in 2008 were reviewed. Since the characterization performed by ENERCON for the License Termination Plan (LTP) is still underway, a summary of the sampling effort and the analysis data from the ENERCON soil sampling effort in the HBRP area in 2007 is attached.

The highlights from the different sampling efforts specific to the HBRP area are as follows:

- IT/Duratek Summary Subsurface borings were advanced to a depth of 4 feet in 9 locations in the HBRP area. Samples were collected at 1-foot intervals beginning at 0.5 feet. One location had 6 additional borings in the immediate area. This grouping of samples was to determine the extent of contamination located at the end of a drainage pipe that ran along the northern edge of the train tracks. The tracks and the drain line had been covered by fill and gravel. All samples in the HBRP area were less than the accepted site background of 0.5 pCi/g Cs-137, except the one location with close grouping of borings had three samples at a depth of 3.0 to 3.5 feet with concentrations ranging from 1.34 pCi/g to 1.84 pCi/g and three samples had detectable Co-60 with a maximum concentration of 0.9 pCi/g. The location with detectable Co-60 and elevated Cs-137 is on the northern edge of the HBRP boundary and should not be near the foundation of the actual generating plants or ancillary equipment. Additional samples were not collected to confirm or determine the extent of the elevated radioactive material since the concentrations were less than potential release criteria. A drawing with IT/Duratek sample data from samples collected in the HBRP area is included in Attachment 1.
- ENERCON Data Summary The survey of the area indicated no significant detectable contamination from HBPP Unit 3 nuclear reactor operations. One surface soil sample result indicated a Cs-137 concentration of 0.653 pCi/g with a two-sigma uncertainty of ± 0.084pCi/g. All other samples Cs-137 results were less than the HBPP site established background of 0.5 pCi/g Cs-137. All results for Co-60, Am-241, Pu-239/240,

Mr. David Sokolsky September 2, 2008 Page 2 of 3

Cm-242/244, Sr-90, and Tritium were not detected. The result of the soil sample Gamma radiation surveys indicated no levels of gamma radiation greater than twice background. Laboratory analysis reports from General Engineering Laboratories are attached as well as drawings of the surface soil sample locations and the gamma walkover measurement locations. Additional samples were not collected to confirm or determine the extent of the elevated radioactive material since the concentrations were less than potential release criteria. A summary of the ENERCON sample collection process, drawings depicting the sample locations, and laboratory analysis results are included in Attachment 2.

• TRC Data Summary – TRC Solutions, Inc. advanced 44 borings, with approximately 3 samples per boring, in the HBRP area in support of their Environmental Remedial Investigations in July 2008. In addition to the remedial investigation analyses for non-radiological materials, all samples were submitted for gamma spectroscopy analysis to gain additional knowledge of the subsurface soils in the HBRP area. It was necessary to determine whether or not the soils could be released off site for disposal without restriction, i.e. no radionuclide concentrations derived from Unit 3 operations. All subsurface samples collected from the borings in HBRP Area were less than the site background of 0.5 pCi/g Cs-137, except for one sample with a concentration of 1.23 pCi/g ± 0.146 pCi/g at a depth of 4.5 feet. Additional samples were not collected to confirm or determine the extent of the elevated radioactive material since the concentrations were less than potential release criteria. A drawing of the sample locations and the laboratory analysis results are included in Attachment 3.

The aforementioned soil characterization efforts primarily addressed soil exposure routes from the air or groundwater. Two additional exposure routes, burial or subsurface migration along subsurface pipe trenches, may be possible. The operating history and personal accounts do not indicate a high potential for these routes to occur. As a conservative measure, additional sampling will occur during the initial construction phase of the HBRP (i.e. interference removal of buildings, subsurface structures, and pipes and area preparation/grading) to assess whether or not soils were exposed to radioactive material through either of these exposure routes. During the interference removal phase as previously non-accessible soils become accessible, samples will be collected and analyzed for Cs-137. The non-accessible areas include soils below pipes, soils beneath foundations, and soil that does not appear to be native to the immediate area. Objects and other items encountered during excavation of soils in HBRP, will be surveyed with a portable radiation detection instrument before disposal offsite. As a final check, all disposal trucks leaving HBPP with soils or debris for unrestricted release will be scanned independently by the HBPP Radiation Protection Department to ensure compliance with disposal facility waste acceptance criteria

Based on the characterization survey results and historical operations at HBPP, a high degree of confidence has been obtained that future worker(s) assigned to the HBRP facility will receive no significant radiation dose above background. Survey results indicate radioactive material concentrations exist in the surface and subsurface soils; however, the data also indicates that the average concentration should be significantly less than the Nuclear Regulatory Commission's screening levels for residual radioactive material, and will not require any remediation. Furthermore, it is ENERCON's opinion that these values are significantly below proposed Derived Concentration Guideline Levels (DCGLs) currently in development for the site.

During the decommissioning of HBPP Unit 3 Nuclear Reactor, a Cross Contamination Prevention and Monitoring Plan will be implemented to ensure the HBRP area and facilities are not impacted

Mr. David Sokolsky September 2, 2008 Page 3 of 3

from Unit 3 decommissioning activities. As part of this plan, routine surveys will be conducted at the facility and continuous environmental air samples will be collected. HBPP has also completed the installation of 7 groundwater monitoring wells to augment the existing network of monitoring wells. Additionally, engineering and administrative controls will be implemented to minimize or eliminate the risk of inadvertent releases of radioactive material during decommissioning activities.

Based on the above discussion, there is no significant radiological impact to construction workers or the future personnel in the HBRP area.

Sincerely,

Dustin G. Miller

Health Physicist/Project Manager

DGM:dmm

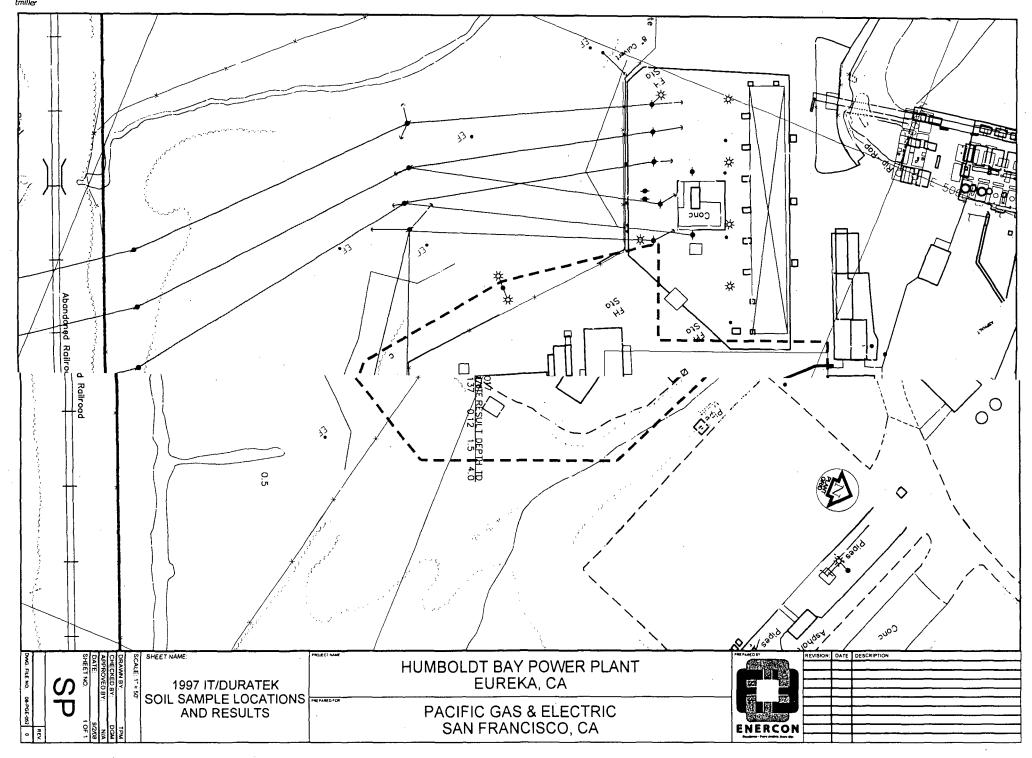
cc:

John Albers Keith Mahosky Gerald Williams

Attachments

ATTACHMENT 1

A Drawing With IT/Duratek Sample Data From Samples Collected In The HBRP Area



ATTACHMENT 2

A Summary Of The ENERCON Sample Collection Process, **Drawings** Depicting The Sample Locations, And Laboratory Analysis Results

HBRP Area History and ENERCON Surface Soil Characterization Summary

ENERCON has been contracted by PG&E to develop the License Termination Plan (LTP) for HBPP Unit 3. The characterization effort to support the development of the HBPP LTP is in the final stages and a final report has not been written. Therefore, the following information is summarized from the data contained in the ENERCON Characterization Survey Package 005SS3, New Generation Area:

Operational History of Survey Unit

The HBRP area was not involved in typical plant work activities during operation of the HBPP Unit 3 Nuclear Reactor. The northern portion of this area is downwind of the Unit 3 stack, for the typical winter south to southeast winds. A large portion of this area has been covered by fill material with about one third of the fill material placed prior to Unit 3 operation and about half of the fill material placed since the beginning of Unit 3 operation. The historical activities in filled portions of this survey area are related to landscaping, operation of the Mobile Electric Power Plants (MEPPs), diesel oil storage, material/equipment storage, painting (and sandblasting to prepare for painting), office space and employee parking. The area has underground piping and electrical conduits. Items of interest in the survey area include the original sanitary sewer leach field for Unit 3 (south of the Oily Water Separator), and the filled drainage ditch/drainpipe that was constructed parallel to the rail spur roadbed.

Detailed Physical Description of the HBRP

This survey unit contains the land area where the HBRP will occur. Some of the survey unit, approximately 50%, is covered by asphalt and/or rock. The remaining surface soil is covered with grass and other natural vegetation. This area has been initially classified as a MARSSIM Class 3 area due to the very low potential for radiological contamination to be present based off of soil sample data from the IT/Duratek 1997 Characterization effort.

Characterization Survey Instructions Summary

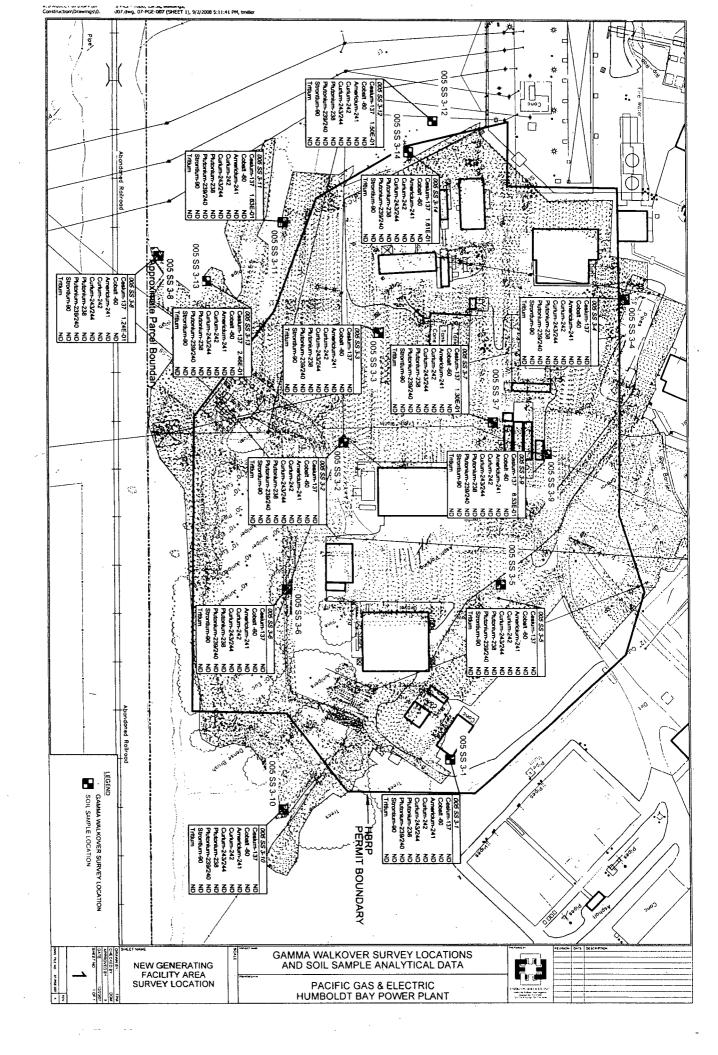
The characterization survey consisted of 14 soil samples and a gamma radiation walkover survey. The design of the Characterization Survey was based on criteria from NUREG-1757, Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM). Soil samples were collected at locations that were determined by random selection using the current version of Visual Sample Plan. Physical collection of the soil samples was delineated in the survey

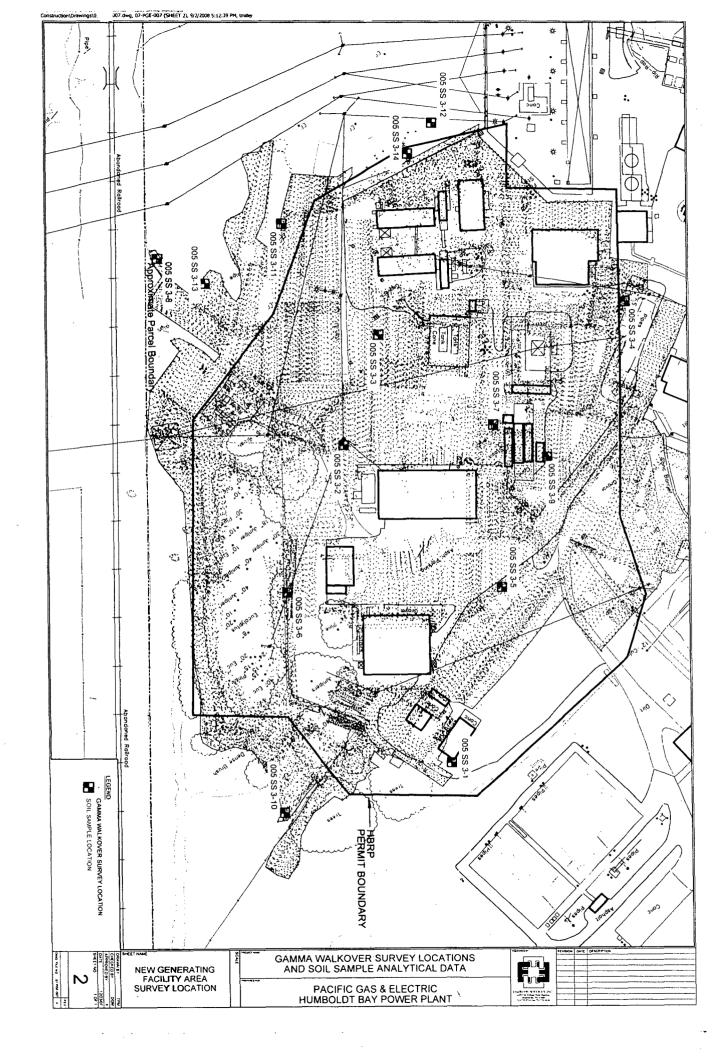
instructions which included the sampling process, field decontamination of tools, sample labeling requirements, and sample location. The procedure HPP-OP-002, *Chain of Custody*, was used to delineate the required chain of custody process and requirements to ensure the integrity of the samples collected. Soil samples were submitted to General Engineering Laboratories (GEL) for gamma spectroscopy for Cs-137 and Co-60 and for analysis of Am-241, Pu-239/240, Cm-242/244, Sr-90, and Tritium.

The survey instructions also described the procedures to be followed for the gamma radiation walkover survey which covered 100% of accessible surface soil areas using a 2x2 Sodium Iodide (NaI) detector with a scanning speed of less than 0.5 m/s. The gamma walkover survey was performed using a Ludlum Model 44-10 (2" x 2") NaI detector coupled to a Ludlum Model 2221 meter. A Trimble® Pathfinder ProXR Global Positioning System (GPS) was used to log the position and radiation measurements collected during the gamma walkover survey. The GPS was also used to located and log the surface soil samples collected in the area.

Characterization Data Results

The survey of the area indicated no significant detectable contamination from HBPP Unit 3 nuclear reactor operations. One surface soil sample result indicated a Cs-137 concentration of 0.653 pCi/g with a two-sigma uncertainty of ± 0.084pCi/g. All other Cs-137 sample results were less than the HBPP site established background of 0.5 pCi/g Cs-137. All results for Co-60, Am-241, Pu-239/240, Cm-242/244, Sr-90, and Tritium were not detected. The result of the soil sample Gamma radiation surveys indicated no levels of gamma radiation greater than twice background. Laboratory analysis reports from General Engineering Laboratories are attached as well as drawings of the surface soil sample locations and the gamma walkover measurement locations.







a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

November 01, 2007

Mr. Dustin G. Miller Enercon Services, Inc. 4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Re: Humboldt Bay NPP soils

Work Order: 195257

Dear Mr. Miller:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 08, 2007. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stanley

Project Manager

Chain of Custody: 021-07 and 030-07

Enclosures

GEL Quote #:	General Engineering 2040 Savage Road Charleston, SC 2940 Phone: (843) 756-1178	7
Client Name: Enercon Services Inc	Phone #: / (724) 733-8711 Sample Analysis Requested (5) (Fill in the number of co	ontainers for each test)
Project/Site Name: Humboldt Bay No		< Preservative Type (6)
Address: 1000 King Salmon Aver	nul. Fureka. MA 95503 considered: 5 y	
Collected by: William DeGuerre & Send Resul	ts To: Corey Dowith	Comments Note: extra sample is
Sample ID • For composites - Indicate start and stop date/time	*Date Collected Collected Collected (Milliary) (hhmm) *Time (Milliary) (mil	required for sample specific QC
AREA - 005553-6	091807 0930 N NASO 1 X	
005533-8	091807 1000 N NA SO 1X	
005553-10	091807 1020 N N/A SO 1 X	
005553-11	091807 1040 N N/A SO 1X	
005883-12	091807 1100 N NA SO IX	
005553-13	091807 1120 N NA 30 1X	
005553-14	091807 1140 N N/A SO 1	
005SS3-05	0918071600 N N/A SO	
N	N N/N/N/N	
A	A A A A A	
TAT Requested: Normal: Rush: Specify:	(Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1	/ Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to	Easter Central Mount	al Other
Relinquished By (Signed) Date Time	Received by (signed) Date Time	<u>Details</u>
1 1 2	CLO GEL PM:	-4 -6
2 (Namo Thomas 092807 1400	1 4 - 1 1 1 40/40 0 0 - 47 50 501 02 0001	<u>09-28-07</u> 5308
1 100 1000000 01280, 1400		0.500
1.) Chain of Custody Number = Client Determined	Airbill #:	For Lab Receiving Use Only
 QC Codes: N = Normal Sample. TB = Trip Blank, FD = Field Duplicate. Et Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample w 	B = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite ras field filtered or - N - for sample was not field filtered.	Custody Seal Intact?
4.) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water	r, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	YES NO
	B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). 1 Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank	Coaler Temp: C

Page: of Project #: PG &E-HBO&S GEL Chain of Custody and Analytical Requirements	
GEL Quote #: COC Number (1): O21-07 GEL Work Order Number: 1961-57	Charleston, SC 29407 Phone: (843) 556-8171
TO Number.	Fax: (843) 766-1178
Cherch Scholler Telephone	quested (5) (Fill in the number of containers for each test)
Project/Site Name: Humbold+ Bay NPP Fax #: 1(724) 733-4630 Should this sample be	< Preservative Type (6)
Address: 1000 King Salmon Avenue- Eure Ka, CA 95503 considered:	
	Comments Note: extra sample is
Sample ID *For composites - indicate start and stop date/time *Collected by: WITH the Downes Send Results To: COREY DeWITT *Date Collected Collected Collected (Military) (hhmm) *(mm-dd-yy) (hhmm) *(mm-dd-yy) (hhmm) *(mm-dd-yy) (hhmm)	required for sample specific QC
AREA - 005SS3-7 09-07-07 1100 N N/A SO 1X	
005883-9 09-07-01 1120 N SO 1X	
005553-4 09-07-07 1140 N SD 1X	
005553-2 09-07-07/1200 N SO 1X	
005553-1 09-07-071240 N SO 1X	
005553-3 09-07-071300 NV SO 1X	
N	
A A A A	
	Cof A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards	Sample Collection Time Zone Eastern Pacific Central Other Mountain
Chain of Custody Signatures	Sample Shipping and Delivery Details
Relinquished By (Signed) Date Time Received by (signed) Date Time GEL PM:	
1 Jayre homes 690707 /300 1 Jayre homes 90707 /300 Method of Shipment: UP	S Date Shipped: 092807
Sept Momas 092807 1400 2 Vers Valdo 90/8/07 9/15 Airbill #: 12 F/C	D F14 03 9004 5308
Airbill #:	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composit	For Lab Receiving Use Only
3.1 Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.	Custody Seal Intaci?
4.) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, SO-Soil, SD-Sediment, SL-Sludge, SS-Solid Waste, O-Oil, F=Filter, P=Wipe, U.S.) Sample Analysis Requested: Analysical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).	J=Urine, F=Fecal, N=Nasal YES NO Cooler Temp:
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, IIX = Hexane, ST = Sodium Thiosulfate, If no preservative is WHITE = LABORATORY YELLOW = FILE PINK = CLIENT	

GEL	Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

CI	ient: Enercon				SDG/ARCOC/Work Order: 195257	
Re	ceived By:		,		Date Received: (0(8107	
Su	spected Hazard Information	Yes	cz		Counts > x2 area background on samples not marked "radioactive" Radiation Safety Group of further investigation.	, contact
CO	OC/Samples marked as radioactive?		X	Max	imum Counts Observed*: to cm	
CI	ssified Radioactive II by RSO?		X		·	
CC	C/Samples marked containing PCBs?		1			
Sh	pped as a DOT Hazardous?	<u> </u>	12	Haza	ard Class Shipped: UN#:	
Sa	nples identified as Foreign Soil?	<u> </u>	X			
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming It	
1	Shipping containers received intact and sealed?	X			Circle Applicable: damaged container leaking container other (describe)	seals broken
2	Samples requiring cold preservation within (4 +/- 2 C)?		X		Preservation Method: blue ice dry ice none other (describe)	ice bags
3	Chain of custody documents included with shipment?	X				
4	Sample containers intact and sealed?	X			Circle Applicable: damaged container leaking container other (describe)	seals broken
5	Samples requiring chemical . preservation at proper pH?		Χ		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:	
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:	
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)	
8	Samples received within holding time?	\checkmark			d's and tests affected: .	
9	Sample ID's on COC match ID's on bottles?	$\langle \rangle$		9	Sample ID's and containers affected:	
	Date & time on COC match date & time on bottles?	X		S	Sample ID's affected:	
	Number of containers received match number indicated on COC?	Y		S	Sample ID's affected:	
	COC form is properly signed in relinquished/received sections?	X				
Con	nments:					
		Ĺ	<i>ا</i> ر	9	12F10F740390045305	
						.
	·					
	PM (or PMA) review: Initia	ale.			9MS Date 10/8/07	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for for

ENRC002 Enercon Services, Inc.

Client SDG: 195257 GEL Work Order: 195257

Sample(s) Contained within this report:

Lab Sample ID	Client Sample ID	Sample Description	Collected
195257001	005SS3-6	N/A	09/18/2007 09:3 0
195257002	005SS3-8	N/A	09/18/2007 10: 00
195257003	005SS3-10	N/A	09/18/2007 10: 20
195257004	005SS3-11	N/A	09/18/2007 10: 40
195257005	005SS3-12	N/A	09/18/2007 11: 00
195257006	005SS3-13	N/A	09/18/2007 11: 20
195257007	005SS3-14	N/A	09/18/2007 11: 40
195257008	005SS3-05	N/A	09/18/2007 16: 00
195257009	005SS3-7	N/A	09/07/2007 11: 00
195257010	005SS3-9	N/A	09/07/2007 11: 20
195257011	005SS3-4	N/A	09/07/2007 11: 40
195257012	005SS3-2	N/A	09/07/2007 12: 00
195257013	005SS3-1	N/A	09/07/2007 12: 40
195257014	005\$S3-3	N/A	09/07/2007 13: 00

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Evil Maules
Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257013

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-1

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

	,		າ	2 Sigma	1			•
Analyte	Run Date	Qualifier	Activity	Uncertainty	MDA	RL	Units	
Gamma S	pec							
Co-60	.10/31/07	U	2.19E-02	2.34E-02	4.47E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	U	-1.56E-02	2.33E-02	3.78E-02	1.00E-01	pCi/g	

- 2. Activity is reported on a dry weight basis and is decay corrected to the sample collect date.
- 3. Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

Matrix:

195257012

Client Sample ID:

Geometry Received:

005SS3-2

Soil

Client: Enercon Services, Inc.

Collect Date: September 07, 2007

Receive Date: October 08, 2007

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma Sp	pec							
Co-60	10/31/07	U	1.42E-03	3.55E-02	5.90E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	U	-5.97E-03	3.71E-02	6.08E-02	1.00E-01	pCi/g	

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257011

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-4

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma S	Spec							
Co-60	10/31/07	U	1.43E-02	2.90E-02	4.32E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	U	1.49E-02	3.17E-02	4.33E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257014

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-3

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte .	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	\mathbf{MDA}^{1}	RL ·	Units	
Gamma Sp	эес							
Co-60	10/31/07	U	2.26E-02	2.75E-02	5.20E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	U	0.00E+00	5.10E-02	5.90E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257008 005SS3-05

Client: Enercon Services, Inc. Collect Date: September 18, 2007

Client Sample ID: Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Gamma	Spec						*
Co-60	10/31/07	U	-2.33E-03	2.77E-02	4.60E-02	1.00E-01	pCi/g
Cs-137	10/31/07	. 3	1.25E-01	4.26E-02	4.13E-02	1.00E-01	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257001

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-6

Soil

Collect Date: September 18, 2007

Matrix:

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma Spec	:							
Co-60	10/30/07	U	-3.59E-03	3.24E-02	5.32E-02	1.00E-01	pCi/g	
Cs-137	10/30/07	U	3.43E-02	4.64E-02	4.86E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Ul Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257009

005SS3-7

Client: Enercon Services, Inc.

Client Sample ID:

00355.

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Gamma	Spec		•				
Co-60	10/31/07	U	1.96E-02	3.05E-02	5.56E-02	1.00E-01	pCi/g
Cs-137	10/31/07	3	1.30E-01	6.96E-02	5.01E-02	1.00E-01	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257002

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-8

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

***************************************	*****	2 Sigma Run Date Qualifier Activity Uncertainty MDA RL Units						
Analyte	Run Date		Activity 2	Uncertainty	MDA 1	·RL		
Gamma Spec	c							
Co-60	10/30/07	U	-2.63E-02	4.46E-02	6.47E-02	1.00E-01	pCi/g	
Cs-137	10/30/07	3	1.24E-01	7.52E-02	7.63E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

Matrix:

195257010

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-9 Soil

Collect Date: September 07, 2007

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma S	pec							
Co-60	10/31/07	U	1.70E-02	2.73E-02	4.98E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	. 3	6.53E-01	8.40E-02	4.26E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257003

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-10

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA	RL	Units	
Gamma Spe	c ·							
Co-60	10/30/07	U	-3.29E-02	3.57E-02	4.94E-02	1.00E-01	pCi/g	
Cs-137	10/30/07`	UI	0.00E+00	7.73E-02	5.55E-02	1.00E-01	pCi/g	

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257004

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-11

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received: Report Da

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma-S	pec							
Co-60	10/30/07	U	-2.11E-02	3.55E-02	5.33E-02	1.00E-01	pCi/g	
Cs-137	10/30/07	3 .	1.63E-01	6.31E-02	4.79E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257005

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-12

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Gamma S	Spec							
Co-60	10/30/07	U	2.37E-02	3.68E-02	6.65E-02	1.00E-01	pCi/g	
Cs-137	10/30/07	3	1.50E-01	5.53E-02	5.89E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257006

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-13

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Gamma S	pec						•
Co-60	10/30/07	U	6.99E-03	3.25E-02	5.57E-02	1.00E-01	pCi/g ~
Cs-137	10/30/07	3	2.46E-01	5.17E-02	4.82E-02	1.00E-01	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

2. Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

3. Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Ul Gamma Spectroscopy-Uncertain identification

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

195257007

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-14

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: November 01, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA	RL	Units	
Gamma Sp	oec							
Co-60	10/31/07	U	2.06E-02	3.03E-02	5.54E-02	1.00E-01	pCi/g	
Cs-137	10/31/07	`3	1.61E-01	7.07E-02	4.95E-02	1.00E-01	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Ul Gamma Spectroscopy--Uncertain identification

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: November 1, 2007

Page 1 of 2.

4499 Old Wi

4499 Old William Penn Highway

Murrysville, Pennsylvania Mr. Dustin G. Miller

Enercon Services, Inc.

Contact:
Workorder:

195257

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec Batch 691	633												
QC1201436625	195257004	DUP											
Cesium-137				1.63E-01		1.11E-01	pCi/g	38		(0% - 100%)	МЈН1	11/01/0	07 10:54
				+/-6.31E-02	+,	-5.11E-02							
Cobalt-60				U -2.11E-02 +/-3.55E-02		-2.42E-02 -3.22E-02	pCi/g	14		. N/A			
OC1201436626	LCS			17-3.55E-02	.,	J.2213 02							
Americium-241		1.6	4E+01		+,	1.32E+01 -1.32E+00	pCi/g		81	(75%-125%)		11/01/0	7 12:59
Cesium-137		6.2	BE+00		+/	6.75E+00 -6.30E-01	pCi/g	٠	108	(75%-125%)			
Cobalt-60		8.9	IE+00		+/	9.61E+00 -6.95E-01	pCi/g		108	(75%-125%)			
QC1201436624	MB					,							
Cesium-137					U +/	2.51E-02 -2.13E-02	pCi/g					11/01/0	07 08:49
Cobalt-60					U +/	1.71E-03 -1.93E-02	pCi/g						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder:

195257

Page 2 of 2

QC Units RPD% REC% Range Anlst Date Time Parmname Sample Qual

- Y QC Samples were not spiked with this compound
- RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

- ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
- * Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

List of current GEL Certifications as of 01 November 2007

State .	Certification
Alaska	UST-062 .
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California	01151CA
Colorado	GenEngLabs
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA	WG-15J
Florida/NELAP	E87156
Georgia	E87156 (FL/NELAP)
Hawaii	N/A
Idaho	N/A
Illinois	200029
Indiana	C-SC-01
Kansas	E-10332
Kentucky	90129
Louisiana	03046
Maryland	270
Massachusetts	M-SC012
Michigan	9903
Nevada	SC12
New Jersey	SC002
New Mexico	FL NELAP E87156
New York	11501
North Carolina	233
North Carolina Drinking W	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania	68-00485
South Carolina	10120001/10585001/1 0120 002
Tennessee	02934
Texas NELAP	T104704235-07- TX
U.S. Dept. of Agriculture	S-52597
US Army Corps of Engineer	N/A
Utah	.8037697376 GEL
Vermont	. • VT87156
Virginia	00151
Washington	C1641



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

January 21, 2008

Mr. Dustin G. Miller Enercon Services, Inc. 4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Re: Humboldt Bay NPP soils Work Order: 200159

Dear Mr. Miller:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 04, 2007 and October 08, 2007. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Vin M / Ha ule Erin Stanley

Project Manager

Chain of Custody: 008-07, 009-07, 010-07, 011-07, 012-07, 013-07, 016-07, 018-07, **021-0**7 and 030-07 Enclosures

GEL	Laboratories uc
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SAMPLE RECEIPT & REVIEW FORM

Cı	ient: Enercon	-		SDG/ARCOC/Work Order: 195022
Re	ceived By: Ams	•••		Date Received: 10 - 04 - 07
Su	spected Hazard Information	Yes	ž	the Country of the books and an appellance marked "adia atia"
CC	OC/Samples marked as radioactive?		V	Maximum Counts Observed*: 40 com
Cla	assified Radioactive II by RSO?		V	1
CC	C/Samples marked containing PCBs?		1	
Sh	pped as a DOT Hazardous?		i	Hazard Class Shipped: UN#:
Saı	nples identified as Foreign Soil?	<u> </u>	<u>ا</u>	<u> </u>
	Sample Receipt Criteria	Yes	A X	
1	Shipping containers received intact and sealed?	~		Circle Applicable: scals brok damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)?	V		Preservation Method: ice bag blue ice dry ice none wher (describe) p kg 24° mat-
3	Chain of custody documents included with shipment?	/		
4	Sample containers intact and sealed?	V		Circle Applicable: seals broke damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		V	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		V	Sample ID's and containers affected:
7	Are Encore containers present?			(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	/		Id's and tests affected:
, 9	Sample ID's on COC match ID's on bottles?	\		Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	7		Sample ID's affected:
11	Number of containers received match number indicated on COC?			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	/		
Con	unents:	12	<u>+</u> =	710F7403 9189 3668
	PM (or PMA) review: Initia	als		EMS Date 10/4/07

Cli	ient: Enerco	72		S	DG/ARCOC/Work Order: 195022		
Re	ceived By:				Pate Received: 10-4-07		
Su	spected Hazard Information	Yes	ž		unts > x2 area background on samples not man diation Safety Group of further investigation.	rked "radioactive	", contact
CC	OC/Samples marked as radioactive?		1	Maxin	num Counts Observed*: 80 cpm	1	
Cla	assified Radioactive II by RSO?		V				
co	C/Samples marked containing PCBs?		1				
-	pped as a DOT Hazardous?		~	Hazaro	l Class Shipped: UN#:		
	nples identified as Foreign Soil?		7				
-			-				
	Sample Receipt Criteria	Yes	ž	ž	Comments/Qualifiers (Required for No	n-Conforming	ltems)
1	Shipping containers received intact and sealed?	V		C	ircle Applicable: damaged container leaking container	other (describe)	seals broken
2	Samples requiring cold preservation within (4 +/- 2 C)?		V	P	reservation Method: blue ice dry ice none	other (describe)	ice bags
3	Chain of custody documents included with shipment?	V					
4	Sample containers intact and sealed?	/		Ci	rcle Applicable: damaged container leaking container	other (describe)	seals broken
5	Samples requiring chemical preservation at proper pH?				mple ID's, containers affected and observed pH: Preservation added, Lot#:		<u>.</u>
6	VOA vials free of headspace (defined as < 6mm bubble)?		_		mple ID's and containers affected:		,
7	Are Encore containers present?	·			yes, immediately deliver to Volatiles laboratory)		·
8	Samples received within holding time?	~		Id's	and tests affected:		
9	Sample ID's on COC match ID's on bottles?	V		San	nple ID's and containers affected:		·
10	Date & time on COC match date & time on bottles?	$\sqrt{}$		San	raple ID's affected:		
11	Number of containers received match number indicated on COC?	$\sqrt{}$		San	nple ID's affected:		
12	COC form is properly signed in relinquished/received sections?	\checkmark					
Con	oments: UPS 12F1	<u>۷</u> 1	F7	1.02	398119098		
	0. –			-	_		
	• -	- 10		14	0393747274		
	• •				``` 9175 6253 '' 9468 1088		
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	TOTAL TOTAL		-	0	MAN Des 10/11/13		

GEL Quote #:	GEL Chain of Cu	·	Anal	lytica	al Rec	quest		General Engine 2040 Savage R Charleston, SC Phone: (843) 5	load 29407	oratories, LLC
PO Number: GEL Wo	rk Order Number: 1950	/ 5/	 			·		Fax: (843) 766		
Client Name: Enercon Services Inc	Phone #: 1 (724	1)733-8711		Sampl	e Analysis	Requeste	d ⁽⁵⁾ (Fill	in the number	of contai	ners for each test)
Project/Site Name: Humboldt Bay NI	PP Fax #: 1(724)) <i>133-463</i> 0 s	ihould this	containers						< Preservative Type (6)
Address: 1000 King Salmon Aver	nuo Fureko MAC		onsidered:	cont	الغ					
Collected by: William DeGuerre & Send Resu	olts To: Corey Dowith		ated	iber of	AMM A SOC					Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected Collected (Military) (hhmm)	Filtered (2) Matrix (4)	Radioactive TSCA Regul	Total num	MAMA					required for sample specific QC
AREA - 005553-6	091807 0930 N	NASO		7						
005533-8	09/807 1000 N	NA SO		1						
005553-10	091807 1020 N	N/A SO		1						
005553-11	091807 1040 N	NA SO		1						
005553-12	091807 1100 N	NA SO			\langle					
005553-13	091807 1120 N	NA SO								
005553-14	091807 1140 N	NA SO			\forall					
005553-05	0918071600 N	NASO			abla					
N	N/N/N/	N/N/	N						-	
A	A A A	/A /A		A						
TAT Requested: Normal: Rush: Specify: Remarks: Are there any known hazards applicable to		Yes / st the hazards	No	Circl	e Deliverab			, S	ample Col Eastern Central Mountain	
Relinquished By (Signed) Date Time	Received by (signed) Date	Time				Sam	ple Shipp	ing and Deliv	rery Deta	ils
Que Thomas 091807 1600		ΛΠ 1/ ΛΛ		PM:	1	ips		T		9-28-07
2 (Xano Thomas 092807 1400	1 Jace Maria Contra	07 1600 10/8/07 971		od of Ship	Z F		74	Date Shipped		308
1 The state of the	3	MEW 1 1W	Airbi		<u>- </u>	10 1	· · T	<u>۱</u> ۰۰ رین	<u> </u>	
1.) Chain of Custody Number = Client Determined 2.) OC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, E 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample v 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Wat 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6016)	was field filtered or - N - for sample was not fiel er, WW=Waste Water, W=Water, SO-Soil, SE	ld filtered. D=Sediment, SL=Sludge, S	: Duplicate Sa	ample, G = ste, O=Oil,			F=Fecal, N=	-Nasal		For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp:
6.) Preservative Type: HA = Hydrochloric Acid. NI = Nitric Acid. SH = Sodius	m Hydroxide, SA = Sulfuric Acid, AA = Ascort	oic Acid, HX = Hexane, ST	T = Sodium 1	hiosulfate,	If no preserva	tive is added =	leave field b	lank	1	C

Page:	GEL Chai	n of Cus	tody a	nd A	Anal	ytic	al Rec	juest		2040 Sava	-	Laboratories, LLC
COC Number (1): 021-07	GEL Work Order Number	r:				1967	157			Phone: (84	43) 556-817	•
PO Number:			\								766-1178	
Client Name: Enercon Servic		one #: / (724	1) 733-87	<u> </u>		Sampl	e Analysis	Requested	(Fill	in the nur	nber of cor	ntainers for each test)
Project/Site Name: Humbold+ (Bay NPP Fa	×#: 1(724)		Sho sar	uld this	tainers			_			< Preservative Type (6)
Address: 1000 King Salmon	n Avenue-Eure K	a. CA 95	5503	con	sidered:	00 Jo	2					
Address: 1000 King Salmon Collected by William DeGuerre Toyce Thomas	Send Results To: CORE	Y DeW	1++		lated							Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/ti	Date Collected (Mm-dd-vv)	*Time Collected QC Code Military) (hhmm)	Field San Filtered (3) Moto		TSCA Regulated	Total nun	JARMAR					required for sample specific QC
AREA - 005883-	7 09-07-07 1	100 N	NAS	0		1						
005883-	9 09-07-01	120 N	15	0								
005553-		140 N	S	D		10	$X \cap X$					
005553-2	1 1		S	0		1	X					
00 <i>55</i> \$3-	,					1	7					
005553-3			VS			1						
N	11/	N /		7	h/							·
T N	N/	1			1							
A	/ 4		Δ			A						
						1						
TAT Requested: Normal: Rush: S	pecify: (Subject to Surcharge)	Fax Results:	_Yes	,	No	Circ	e Deliverab	le: C of A	/ QC Sur	nmary /	Level 1 /	Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards ap	plicable to these samples? L	f so, please list	the hazard	's						- -	Sample Eastern Central Mounts	Other
Cha	in of Custody Signatures							Samp	le Shippi	ng and I	Delivery D	etails
Relinquished By (Signed) Date Time	L CH		Time		GEL	PM:						
garce Thomas 090707 /:		2mp9071	07 13	300	Metho	od of Ship	oment:	IPS_		Date Shi	pped: C	192807
Dent Momas 092807	1400 2 4 Com	Volub 90	218107	9718	Airbil	1#: 1	ZF	-10 F	-74	03	900	4530B
3 5	3	·	γ <i>ν</i>	·	Airbil	l #:	·	·				
 Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fiel 	ld Duplicate, EB = Equipment Blank, MS	i = Matrix Spike Samol	e. MSD = Matri	x Spike Di	uplicate Sa	mple. G =	Grab. C = Con	nposite				For Lab Receiving Use Only
3.) Field Filtered: For liquid matrices, indicate with a - Y - for y	es the sample was field filtered or - N - for	r sample was not field	tiltered.									Custody Seal Intact?
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW 5.) Sample Analysis Requested: Analytical method requested (i.	and the second s						F=Filter, P=W	'ipe, U=Urine,	F=Fecal, N=1	vesal	-	YES NO Cooler Temp:
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Ac	id, SH = Sodium Hydroxide, SA = Sulfurio	c Acid, AA = Ascorbic	Acid, HX = He			hiosulfate,			eave field bla	ınk	L	C
WHILE	: = LABORATORY	YELLU	W = FILE			FINK	= CLIEN	1				

CI	ient:	Enercon				SDG/ARCOC/Work Order: 195257
Ro	ceived By:	N.				Date Received: (3(8/57)
Su	spected Ḥazar	d Information	Yes	Š		Counts > x2 area background on samples not marked "radioactive", contact Radiation Safety Group of further investigation.
CC	C/Samples ma	rked as radioactive?	1	X	Max	imum Counts Observed*: to cfm
Cl	assified Radioa	ctive II by RSO?		X		
CC	C/Samples ma	rked containing PCBs?		V		
Sh	ipped as a DOT	Hazardous?		V	Haz	ard Class Shipped: UN#:
Sa	mples identified	d as Foreign Soil?	Γ	X		·
\equiv	<u> </u>	n : . G : . :	NS.	4	-	
L	Sample	Receipt Criteria	Yes	A A	ž	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping cont sealed?	ainers received intact and	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requi	iring cold preservation 2 C)?		X		Preservation Method: ice bags blue ice dry ice none other (describe)
3	Chain of custo with shipment	ody documents included ?	X			
4	Sample contai	ners intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requi preservation a	_		Χ		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials fre < 6mm bubble	e of headspace (defined as		X		Sample ID's and containers affected:
7	Аге Епсоге со	ntainers present?			X	(If yes, immediately deliver to Volatiles laboratory) .
8	Samples receiv	ved within holding time?	Y		\	ld's and tests affected:
9	Sample ID's or bottles?	n COC match ID's on	$\langle \rangle$			Sample ID's and containers affected:
10	Date & time or on bottles?	n COC match date & time	X			Sample ID's affected:
	Number of cor number indicate	ntainers received match ted on COC?	X			Sample ID's affected:
		roperly signed in eceived sections?	X			
Con	nments:					
			ζ	<i>ا</i> ر	9	12F10F740390045305
•						
		PM (or PMA) review: Initi	als			9MS Date 10/8/07

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Certificate of Analysis Report for for

ENRC002 Enercon Services, Inc.

Client SDG: 200159 GEL Work Order: 200159

Sample(s) Contained within this report:

Lab Sample ID	Client Sample ID	Sample Description	Collected -
200159001	002SS2-24	N/A	08/17/2007 10: 30
200159002	002SS2-10	N/A	08/22/2007 10: 00
200159003	002SS2-7	N/A	08/21/2007 15: 45
200159004	002SS2-13	N/A	08/17/2007 09:15
200159005	001SS2-4	N/A	08/10/2007 15: 30
200159006	001SS2-14	N/A	08/14/2007 13: 35
200159007	001SS2-16	N/A	08/15/2007 09: 00
200159008	001SS2-1	N/A	08/10/2007 14:3 0
200159009	004SS2-16	N/A	09/04/2007 13:5 0
200159010	004SS2-8	N/A	09/04/2007 11: 20
200159011	004SS2-4	N/A	09/04/2007 09: 30
200159012	004SS2-14	N/A	08/30/2007 15: 00
200159013	005SS3-6	N/A	09/18/2007 09: 30
200159014	005SS3-8	N/A	09/18/2007 10: 00
200159015	005SS3-10	N/A	09/18/2007 10: 20
200159016	005SS3-11	N/A	09/18/2007 10: 40
200159017	005SS3-12	N/A	09/18/2007 11: 00
200159018	005SS3-13	N/A	09/18/2007 11: 20
200159019	005SS3-14	N/A	09/18/2007 11: 40
200159020	005SS3-05	N/A	09/18/2007 16: 00
200159021	005SS3-7	N/A	09/07/2007 11: 00
200159022	005SS3-9	N/A	09/07/2007 11: 20
200159023	005SS3-4	N/A	09/07/2007 11: 40
200159024	005SS3-2	N/A	09/07/2007 12: 00
200159025	005SS3-1	N/A	09/07/2007 12: 40
200159026	005SS3-3	N/A	09/07/2007 13: 00

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159013

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-6

Soil

Collect Date: September 18, 2007

Matrix:

Receive Dat

Receive Date: October 08, 2007

Geometry Received:

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Sr-90	01/10/08	Ū	-4.93E-02	1.67E-01	2.97E-01	2.00E±00	pCi/g
S1-90 Alpha Spec		U	-4.93L-02	1.07E-01	2.97.5-01	2.002 100	pc1/g
Pu-238	01/11/08	U	4.21E-02	7.89E-02	1.53E-01	1.00E+00	pĊi/g
Pu-239/240	01/11/08	U	5.52E-02	7.65E-02	8.28E-02	1.00E+00	pCi/g
Am-241	01/10/08	U	5.61E-03	7.32E-02	2.11E-01	1.00E+00	pCi/g
Cm-242	01/10/08	.U	1.04E-01	1.44E-01	1.56E-01	1.00E+00	pCi/g
Cm-243/244	01/10/08	U	1.29E-03	7.03E-02	2.13E-01	1.00E+00	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159014

Client: Enercon Services, Inc.

Client Sample 1D:

005SS3-8

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Analyte	Run Date	Qualifier	Activity _.	2 Sigma Uncertainty	MDA ⁻¹	RL	Units				
•											
Sr-90	01/16/08	U	-5.29E-01	2.76E-01	6.36E-01	2.00E+00	pCi/g				
Alpha Spe	ec ·										
Pu-238	01/09/08	U	-3.40E-02	9.85E-02	2.87E-01	1.00E+00	pCi/g				
Pu-239/240	01/09/08	U .	2.30E-02	6.10E-02	1.45E-01	1.00E+00	pCi/g				
Am-241	01/10/08	U	-4.89E-02	6.35E-02	1.83E-01	1.00E+00	pCi/g				
Cm-242	01/10/08	U	4.87E-02	9.54E-02	1.46E-01	1.00E+00	pCi/g				
Cm-243/244	01/10/08	U .	-4.35E-02	6.88E-02	2.24E-01	1.00E+00	pCi/g				

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159015

005SS3-10

Client: Enercon Services, Inc.
Collect Date: September 18, 2007

Client Sample ID: Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

	•		2	2 Sigma	1		
Analyte	Run Date	Qualifier	Activity	Uncertainty	MDA	RL	Units
- 00	01/10/09	U	1.38E-01	1.59E-01	2.67E-01	2 00E+00	-C:/-
т-90 Alpha Spe	01/10/08 ec	U	1.38E-U1	1.39E-01	2.07E-01	2.00E±00	pCi/g
u-238	01/09/08	U	-1.35E-02	6.99E-02	2.28E-01	1.00E+00	pCi/g
u-239/240	01/09/08	U	3.93E-02	8.87E-02	1.87E-01	1.00E+00	pCi/g
m-241	01/10/08	U	-3.62E-02	6.61E-02	1.57E-01	1.00E+00	pCi/g
m-242	01/10/08	U	-1.28E-02	1.08E-01	2.56E-01	1.00E+00	pCi/g
m-243/244	01/10/08	U	2.52E-02	6.68E-02	1.59E-01	1.00E+00	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159016

005SS3-11

Client: Enercon Services, Inc. Collect Date: September 18, 2007

Client Sample ID: Matrix:

Soil

Receive Date: October 08, 2007

Report Date: January 21, 2008

Geometry Received:

2 Sigma

Analyte	Run Date	Qualifier	Activity ²	Uncertainty	MDA	RL	Units	
Sr-90	01/10/08	Ū	1.39E-01	1.67E-01	2.81E-01	2.00E+00	pCi/g	
Alpha Spec	c	_			,	•	r8	
Pu-238	01/09/08	U	-5.06E-02	7.72E-02	2.76E-01	1.00E+00	pCi/g	
Pu-239/240	01/09/08	U	2.46E-02	9.12E-02	2.16E-01	1.00E+00	pCi/g	
Am-241	01/10/08	· U	3.93E-02	7.11E-02	1.01E-01	1.00E+00	pCi/g	
Cm-242	01/10/08	U	1.09E-01	1.51E-01	1.64E-01	1.00E+00	pCi/g	
Cm-243/244	01/10/08	U	-4.07E-02	3.56E-02	2.38E-01	1.00E+00	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

Matrix:

200159017

Client Sample ID:

Geometry Received:

005SS3-12

Soil

Client: Enercon Services, Inc.

Collect Date: September 18, 2007

Receive Date: October 08, 2007

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
•							
Sr-90	01/11/08	U	-1.74E-01	5.48E-01	1.05E+00	2.00E+00	pCi/g
Alpha Spec							
Pu-238	01/09/08	U	-3.76E-03	1.19E-01	2.96E-01	1.00E+00	pCi/g
Pu-239/240	01/09/08	U	-7.49E-02	4.64E-02	2.71E-01	1.00E+00	pCi/g
Am-241	01/10/08	U	-2.86E-02	6.25E-02	9.57E-02	1.00E+00	pCi/g
Cm-242	01/10/08	U	5.19E-02	1.02E-01	1.56E-01	1.00E+00	pCi/g
Cm-243/244	01/10/08	U ·	0.00E+00	6.32E-02	9.68E-02	1.00E+00	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159018

Client: Enercon Services, Inc.

Client Sample ID:

Geometry Received:

005SS3-13

Collect Date: September 18, 2007

Matrix: Soil

Receive Date: October 08, 2007

Report Date: January 21, 2008

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Sr-90	01/11/08	U	-1.36E-02	3.93E-01	7.62E-01	2.00E+00	pCi/g
Alpha Spe	ec				•		. 5
Pu-238	01/09/08	U	-1.36E-01	1.08E-01	4.12E-01	1.00E+00	pCi/g
Pu-239/240	01/09/08	U	1.35E-01	1.72E-01	2.81E-01	1.00E+00	pCi/g
Am-241	01/10/08	U	-3.65E-03	2.66E-02	1.52E-01	1.00E+00	pCi/g
Cm-242	01/10/08	U	3.93E-02	1.04E-01	2.48E-01	1.00E+00	pCi/g
Cm-243/244	01/10/08	U	-7.70E-03	6.47E-02	1.54E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample 1D:

200159019

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-14

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Gr-90 .	01/11/08	Ü	-1.04E-01	4.40E-01	8.62E-01	2.00E+00	pCi/g
Alpha Spe		O	1.0 (2.01	1.102 01	0.022 01	2.002 00	, pens
u-238	01/09/08	υ	2.67E-02	1.17E-01	2.67E-01	1.00E+00	pCi/g
u-239/240	01/09/08	U	-3.05E-02	6.90E-02	2.09E-01	1.00E+00	pCi/g
m-241	01/10/08	U	-1.23E-02	2.29E-02	1.59E-01	1.00E+00	pCi/g
Cm-242	01/10/08	U	-1.12E-02	9.41E-02	2.24E-01	1.00E+00	pCi/g
Cm-243/244	01/10/08	U	2.90E-02	5.68E-02	8.70E-02	1.00E+00	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159020

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-05

Collect Date: September 18, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
			,				•••••
Sr-90	01/11/08	U	-4.01E-01	4.53E-01	9.28E-01	2.00E+00	pCi/g
Alpha Spe	c						
Pu-238	01/09/08	U	-1.39E-02	1.10E-01	3.02E-01	1.00E+00	pCi/g
Pu-239/240	01/09/08	U	-2.36E-02	8.07E-02	2.69E-01	1.00E+00	pCi/g
Am-241	01/10/08	U	-3.45E-03	2.81E-02	1.57E-01	1.00E+00	pCi/g
Cm-242	01/10/08	U	5.33E-02	1.04E-01	1.60E-01	1.00E+00	pCi/g
Cm-243/244	01/10/08	U	0.00E+00	6.48E-02	9.92E-02	1.00E+00	pCi/g

Note(s): 1. Calculated MDAs are a-posteriori values at the 95% confidence level.

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159021

Client Sample ID:

005SS3-7

Client: Enercon Services, Inc.

Collect Date: September 07, 2007

Receive Date: October 08, 2007

Soil

Matrix: Geometry Received:

Report Date: January 21, 2008

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units	
Sr-90	01/11/08	U	-5.30E-02	3.02E-01	6.19E-01	2.00E+00	pCi/g	
Alpha Spec	2							
Pu-238	01/10/08	U	-3.34E-02	8.45E-02	2.10E-01	1.00E+00	pCi/g	
Pu-239/240	01/10/08	U	5.65E-02	6.54E-02	9.49E-02	1.00E+00	pCi/g	•
Am-241	01/11/08	U	-2.75E-02	6.11E-02	9.35E-02	1.00E+00	pCi/g	
Cm-242	01/11/08	U	5.33E-02	1.05E-01	1.60E-01	1.00E+00	pCi/g	
Cm-243/244	01/11/08	U	-3.79E-02	3.32E-02	2.21E-01	1.00E+00	pCi/g	

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159022

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-9

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: January 21, 2008

Analyte	Run Date	Oualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
					,	•	
Sr-90 .	01/11/08	U	7.15E-02	3.97E-01	7.57E-01	2.00E+00	pCi/g
Alpha Spe	ec				•		
Pu-238	01/10/08	U	-3.93E-02	8.88E-02	2.15E-01	1.00E+00	pCi/g
Pu-239/240	01/10/08	U	5.30E-02	7.16E-02	1.21E-01	1.00E+00	pCi/g
Am-241	01/11/08	U	-4.24E-02	6.52E-02	1.74E-01	1.00E+00	pCi/g
Cm-242	01/11/08	U	5.39E-02	1.06E-01	1.62E-01	1.00E+00	pCi/g
Cm-243/244	01/11/08	U	8.80E-02	1.09E-01	1.53E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample 1D:

Matrix:

200159023

Client Sample ID:

Geometry Received:

005SS3-4

Soil

Client: Enercon Services, Inc.

Collect Date: September 07, 2007

Receive Date: October 08, 2007

Report Date: January 21, 2008

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
r-90	01/11/08	U	1.80E-02	3.75E-01	. 7.22E-01	2.00E+00	pCi/g
Alpha Spe	c					•	
u-238	01/10/08	. U	2.30E-02	8.92E-02	1.83E-01	1.00E+00	pCi/g
-239/240	01/10/08	U	3.12E-02	6.92E-02	1.38E-01	1.00E+00	pCi/g
.m-241	01/11/08	U	-1.03E-02	3.26E-02	1.77E-01	1.00E+00	pCi/g
m-242	01/11/08	U	2.84E-02	1.13E-01	3.02E-01	1.00E+00	pCi/g
m-243/244	01/11/08	U	5.03E-02	1.16E-01	2.39E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159024

Client Sample ID:

005SS3-2

Client: Enercon Services, Inc. Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: January 21, 2008

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Sr-90	01/11/08	U	2.97E-02	3.52E-01	6.78E-01	2.00E+00	pCi/g
Alpha Spec	<u> </u>						, .
Pu-238	01/10/08	U	-4.41E-02	8.15E-02	2.16E-01	1.00E+00	pCi/g
Pu-239/240	01/10/08	U	2.56E-02	6.55E-02	1.37E-01	1.00E+00	pCi/g
Am-241	01/11/08	U	-5.79E-02	6.86E-02	2.08E-01	1.00E+00	pCi/g
Cm-242	01/11/08	U	4.11E-02	1.09E-01	2.59E-01	1.00E+00	pCi/g
Cm-243/244	01/11/08	U	1.28E-03	6.95E-02	2.11E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample ID:

200159025

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-1

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: January 21, 2008

				2 Sigma	1		
Analyte	Run Date	Qualifier	Activity ²	Uncertainty	MDA	RL	Units
	•			•			
Sr-90	01/11/08	U	-2.55E-01	2.71E-01	6.16E-01	2.00E+00	pCi/g
Alpha Spe	с						
Pu-238	01/10/08	U	-6.95E-02	7.14E-02	1.98E-01	1.00E+00	pCi/g
u-239/240	01/10/08	U	2.01E-02	6.14E-02	1.28E-01	1.00E+00	pCi/g
Am-241	01/11/08	U	4.27E-04	8.11E-02	2.37E-01	1.00E+00	pCi/g
Cm-242	01/11/08	U	-1.39E-02	2.72E-02	2.77E-01	1.00E+00	pCi/g
m-243/244	01/11/08	U	1.37E-03	7.44E-02	2.25E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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10 CFR Part 50/61 Certificate of Analysis

GEL Sample 1D:

200159026

Client: Enercon Services, Inc.

Client Sample ID:

005SS3-3

Collect Date: September 07, 2007

Matrix:

Soil

Receive Date: October 08, 2007

Geometry Received:

Report Date: January 21, 2008

Analyte	Run Date	Qualifier	Activity ²	2 Sigma Uncertainty	MDA 1	RL	Units
Sr-90	01/11/08	U	-1.21E-01	3.56E-01	7.34E-01	2.00E+00	pCi/g
Alpha Spe	ec			•			7 6
Pu-238	01/10/08	U	0.00E+00	2.99E-02	4.58E-02	1.00E+00	pCi/g
Pu-239/240	01/10/08	U	1.52E-02	2.98E-02	4.56E-02	1.00E+00	pCi/g
Am-241	01/11/08	U	-4.92E-02	4.98E-02	2.56E-01	1.00E+00	pCi/g
Cm-242	01/11/08	U	-2.71E-02	3.75E-02	3.13E-01	1.00E+00	pCi/g
Cm-243/244	01/11/08	U	1.07E-02	1.01E-01	2.59E-01	1.00E+00	pCi/g

^{2.} Activity is reported on a dry weight basis and is decay corrected to the sample collect date.

^{3.} Results are statistically positive at the 95% confidence level. (activity is greater than or equal to the two sigma uncertainty)

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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QC Summary

Report Date: January 21, 2008

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Enercon Services, Inc.

4499 Old William Penn Highway Murrysville, Pennsylvania

Contact:

Mr. Dustin G. Miller

Workorder:

200159

QC1201491622 200159008 DUP Plutonium-238	Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Ti	me
OCI201491613 200159008 DUP			•									
Americium-241	Batch 716036											
H-F-13E-02									,			
Curium-242	Americium-241					pCi/g	136		N/A	MXAI	01/10/08 1	13:46
H-1.41E-0						_:.						
Curium-243/244	Çurium-242					pCi/g	62		N/A			
+/-1,74E-02	Coming 242/244					-C:/a	266		NI/A			
OCI 201491620 OCI 201491621 OCI 201491621 OCI 201491622 OCI 201491622 OCI 201491622 OCI 201491622 OCI 201491622 OCI 201491624 OCI 20149162	Curium-243/244					pC1/g	300		IN/ F	1		
Americium-241	QC1201491620 LCS		17-1.74L-02	17-5.5	1L-02							
Curium-243/244		1.31E+01		1.4	11E+01	pCi/g		108	(75%-125%)		01/10/08 1	3:46
Curium-243/244				+/-1.2	8E+00							
Curium-243/244	Curium-242			U 8.4	12E-02	pCi/g						•
+/-1.40E+00 Americium-241 Americium-241 Americium-242 Curium-242 Curium-243/244 Curium-243/244 Curium-241 D -2.86E-02				+/-1.0	5E-01							
QC1201491617	Curium-243/244	1.50E+01				pCi/g		112	(75%-125%)			
Americium-241	0.001201404417			+/-1.4	0E+00							
Curium-242	•				1E 02	nCi/a					01/10/08 1	13.46
Curium-243/244	Americiani-24)					peng					01/10/00 1	3.40
Curium-243/244	Curium-242					nCi/g						
QC1201491619 200159008 MS Americium-241						P0.5						
QC1201491619 200159008 MS Americium-241	Curium-243/244			U -6.98	8E-03	pCi/g						
Americium-241				+/-5.8	7E-02							
+/-7.13E-02	-											
Curium-242	Americium-241	1.35E+01	,			pCi/g		96	(75%-125%)		01/10/08 1	3:46
+/-1.41E-01 +/-1.06E-01 Curium-243/244 1.56E+01 U -8.86E-03 1.46E+01 pCi/g 94 (75%-125%) +/-1.74E-02 +/-1.27E+00 Batch 716037 QC1201491622 200159008 DUP Plutonium-238 U 2.51E-01 U -1.54E-02 pCi/g 226 N/A MXA1 01/09/08 14:57 +/-2.75E-01 +/-7.97E-02 Plutonium-239/240 U 1.62E-01 U -3.36E-02 pCi/g 305 N/A QC1201491624 LCS Plutonium-238 U 5.59E-02 pCi/g (75%-125%) 01/09/08 14:57 +/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Cominger 242	1				-0:/-:		ь.				
Curium-243/244 1.56E+01 U -8.86E-03 1.46E+01 pCi/g 94 (75%-125%) Batch 716037 QC1201491622 200159008 DUP Plutonium-238 U 2.51E-01 U -1.54E-02 pCi/g 226 N/A MXA1 01/09/08 14:57 +/-2.75E-01 +/-7.97E-02 Plutonium-239/240 U 1.62E-01 U -3.36E-02 pCi/g 305 N/A QC1201491624 LCS Plutonium-238 U 5.59E-02 pCi/g (75%-125%) 01/09/08 14:57 +/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Curjum-242					pC1/g						
+/-1.74E-02	Curium-243/244	1.56F+01				nCi/a		Q4	(75%-125%)			
Batch 716037 QC1201491622 200159008 DUP Plutonium-238 U 2.51E-01 U -1.54E-02 pCi/g 226 N/A MXA1 01/09/08 14:57 +/-2.75E-01 +/-7.97E-02 Plutonium-239/240 U 1.62E-01 U -3.36E-02 pCi/g 305 N/A QC1201491624 LCS Plutonium-238 U 5.59E-02 pCi/g (75%-125%) 01/09/08 14:57 +/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Curum 2 13/2+4	1.502.01				perg		74	(1370-12370)			
Plutonium-238	Batch 716037											
Plutonium-238	OC1201491622 200159008 DUP											
Plutonium-239/240	Plutonium-238		U 2.51E-01	U -1.54	4E-02	pCi/g	226		N/A	MXA1	01/09/08 1	4:57
+/-2.12E-01 +/-7.60E-02 QC1201491624 LCS Plutonium-238 U 5.59E-02 pCi/g (75%-125%) 01/09/08 14:57 +/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57		•	+/-2.75E-01	+/-7.9	7E-02							
QC1201491624 LCS Plutonium-238	Plutonium-239/240		U 1.62E-01	U -3.36	6E-02	pCi/g	305		N/A			
Plutonium-238 U 5.59E-02 pCi/g (75%-125%) 01/09/08 14:57 +/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) +/-1.23E+00 QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57			+/-2.12E-01	+/-7.60	0E-02							
+/-1.10E-01 Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) +/-1.23E+00 QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57						G: /			(350/ 1050/)		. 01/00/00 1	
Plutonium-239/240 1.28E+01 1.27E+01 pCi/g 99 (75%-125%) +/-1.23E+00 QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Plutonium-238					pC1/g	•		(75%-125%)		01/09/08 1	4:57
+/-1.23E+00 QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Plutonium 220/240	1 205-101				-Cilo		00	(750/ 1750/)			
QC1201491621 MB Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	Plutonium-239/240	1.28E+01				pC1/g		. 99	(73%-123%)			
Plutonium-238 U -5.89E-02 pCi/g 01/09/08 14:57	QC1201491621 MB			77-1.2.	JL:00							
	Plutonium-238			U -5.89	9E-02	pCi/g					01/09/08 1	4:57

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QC Summary

Workorder:

200159

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							Page 2 of 4	
Parmname	NOM	I Sample	Qual QC	Units.	RPD%	REC%	Range Anl	st Date Time
Rad Alpha Spec					-			
Batch 716037	•			•				
Plutonium-239/240			U 1.75E-02	pCi/g			•	
			+/-9.41E-02	, –				
QC1201491623 200159008 MS								
Plutonium-238		U 2.51E-01	U1.38E-02	pCi/g			(75%-125%), MX.	A1 01/09/08 14:57
		+/-2.75E-01	+/-1.91E-02					
Plutonium-239/240	1.32E+01	U 1.62E-01	1.29E+01	pCi/g		98	(75%-125%)	
D-1-1 71(028		+/-2.12E-01	+/-1.20E+00					
Batch 716038								
QC1201491626 200159021 DUP		11		0.1	1.70			
Americium-241		U -2.75E-02	U -2.22E-03	pCi/g	170		N/A TX	P2 01/11/08 08:05
Curium 242		+/-6.11E-02	+/-3.04E-02	6:7	500		27/4	
Curium-242		U 5.33E-02 +/-1.05E-01	U -2.66E-02 +/-3.69E-02	pCi/g	599		N/A	
Curium-243/244		U -3.79E-02		-C:I-	131		N/A	
CM1MII-243/244		+/-3.32E-02	U -7.88E-03 +/-1.54E-02	pCi/g	131		N/A	•
QC1201491628 LCS		·/~J.JZIL=0Z	1/-1.5415-02					
Americium-241	1.28E+01		1.23E+01	pCi/g		96	(75%-125%)	01/11/08 08:05
			+/-1.20E+00	, 0			` ,	
num-242			U 0.00E+00	pCi/g				
· · · · · · · · · · · · · · · · · · ·			+/-6.07E-02					
Curium-243/244	1.47E+01		1.46E+01	pCi/g		9 9	(75%-125%)	
			+/-1.30E+00					
QC1201491625 MB								•
Americium-241		,	U 4.75E-02	pCi/g				01/11/08 08:05
G : 040			+/-8.22E-02					
Curium-242			U 2.87E-02	pCi/g				
Conferm 242/244			+/-7.60E-02	G: 1				
Curium-243/244			U -8.89E-03	pCi/g				
QC1201491627 200159021 MS			+/-1.74E-02					
Americium-241	1.30E+01	U -2.75E-02	1.23E+01	pCi/g		95	(75%-125%)	01/11/08 08:05
		+/-6.11E-02	+/-1.11E+00	Pone		,,,	(,5,0,125,0)	01111100 00.05
Curium-242		U 5.33E-02	U 0.00E+00	pCi/g		•		
		+/-1.05E-01	+/-8.71E-02	Pors				
Curium-243/244	1.50E+01	U -3.79E-02	1.23E+01	pCi/g		82	(75%-125%)	
		+/-3.32E-02	+/-1.11E+00	P - 5			(,	
Batch 716039								
QC1201491630 200159021 DUP					•			
Plutonium-238		U -3.34E-02	U 5.40E-02	pCi/g	849		N/A TXI	2 01/10/08 20:16
		+/-8.45E-02	+/-6.25E-02					
Plutonium-239/240		U 5.65E-02	U 4.61E-02	pCi/g	20		N/A	
		+/-6.54E-02	+/-6.41E-02					
QC1201491632 LCS								•
Plutonium-238			U 1.02E-01	pCi/g			(75%-125%)	01/14/08 08:02
			+/-1.53E-01					
lutonium-239/240	1.26E+01		1.24E+01	pCi/g		98	(75%-125%)	

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QC Summary

Workorder:

200159

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Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec Batch 716039												
					+/.	-1.20E+00						
QC1201491629 M	íВ				.,,	-1.20L + 00						
Plutonium-238					. U . +/-	7.10E-03 -3.15E-02	pCi/g				TXP2	01/10/08 20:16
Plutonium-239/240					U +/-	4.29E-02 -5.97E-02	pCi/g					
QC1201491631 2001	159021	MS					G: ((750) 1050()		01/10/00 00 16
Plutonium-238	•			U -3.34E-02 +/-8.45E-02	U +/.	8.63E-02 -8.59E-02	pCi/g			(75%-125%)		01/10/08 20:16
Plutonium-239/240			1.27E+01	U 5.65E-02 +/-6.54E-02	+/-	1.26E+01 -8.71E-01	pCi/g		99 -	(75%-125%)		
Rad Gas Flow Batch 715660												
OC1201490809 2001	157007	DUP										
Strontium-90				U 9.59E-03 +/-4.06E-01	U +/-	2.36E-01 4.25E-01	pCi/g	0		N/A	SLNI	01/08/08 17:55
QC1201490811 L0 rontium-90	CS		3.05E+01		+/-	3.38E+01 2.09E+00	pCi/g	•	. 111	(75%-125%)		01/08/08 17:55
QC1201490808 M Strontium-90	В				U +/-	4.99E-02 3.99E-01	pCi/g					01/08/08 17:55
QC1201490810 2001 Strontium-90	57007	MS	3.26E+01	U 9.59E-03		3.23E+01	pCi/g		99	(75%-125%)		01/08/08 17:55
Batch 715671				+/-4.06E-01	+/-	2.20E+00						•
	50000	D.I. Do	*						,			•
QC1201490822 2001 Strontium-90	59008	DOP		U 3.15E-01 +/-2.58E-01	U +/-	3.39E-01 5.19E-01	pCi/g	8		N/A	SLN1	01/11/08 12:23
QC1201490824 LC	CS											
Strontium-90			3.10E+01			2.90E+01 2.06E+00	pCi/g		94	(75%-125%)		01/10/08 18:48
QC1201490821 M Strontium-90	В					4.48E-02 3.40E-01	pCi/g					01/11/08 12:23
QC1201490823 2001 Strontium-90	59008	MS	3.17E+01	U 3.15E-01 .+/-2.58E-01	+/-	3.02E+01 1.88E+00	pCi/g		95	(75%-125%)		01/11/08 12:23

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product

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QC Summary

Workorder:

Parmname

200159

NOM Sample Qual

QC Un

Units RPD%

REC%

Range Anlst

Page 4 of 4

Date Time

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

List of current GEL Certifications as of 21 January 2008

State Alaska - Arizona	Certification UST-062
	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California	01151CA
Colorado	GenEngLabs
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA	WG-15J
Florida/NELAP	E87156
Georgia	E87156 (FL/NELAP)
Hawaii	N/A
Idaho	N/A
Illinois	200029
Indiana	C-SC-01
Kansas	E-10332
Kentucky	90129
Louisiana	03046
Maryland	270
Massachusetts	M-SC012
Michigan	9903
Nevada	SC12
New Jersey	SC002
New Mexico	FL NELAP E871 56
New York	11501
North Carolina	233
North Carolina Drinking W	45709
North Dakota	R-158
Oklahoma	. 9904
Pennsylvania	68-00485
South Carolina	10120001/10585001/1 0120 002
Tennessee	02934
Texas NELAP	T104704235-07-TX
U.S. Dept. of Agriculture	S-52597
US Army Corps of Engineer	N/A
Utah	8037697376 GEL
Vermont	VT87156
Virginia	00151
Washington	C1641



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

February 07, 2008

Mr. Dustin G. Miller Enercon Services, Inc. 4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Re: Humboldt Bay NPP soils Work Order: 201361

Dear Mr. Miller:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 04, 2007 and October 08, 2007. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable **you** to meet your analytical needs on time every time. We trust that you will find everything in order and to your **satisfaction**. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stanley Project Manager

Chain of Custody: 008-07, 009-07, 010-07, 011-07, 012-07, 013-07, 016-07, 018-07, **021-07** and 030-07 Enclosures



Client: Enercon					SDG/ARCOC/Work Order: 195022								
Received By: Ams.					Date Received: 10 - 04 - 07								
Su	spected Hazard Information	Yes	ž		Counts > x2 area background on samples not marked "radioactive", contact adiation Safety Group of further investigation.								
CC	C/Samples marked as radioactive?		V	Max	imum Counts Observed*: 60 cam								
Cla	ssified Radioactive II by RSO?	L	1										
	C/Samples marked containing PCBs?		u	· ·									
	pped as a DOT Hazardous?		V	Haza	ard Class Shipped: UN#:								
Sai	nples identified as Foreign Soil?	<u> </u>	<u></u>	<u> </u>									
	Sample Receipt Criteria	Yes	NA	ž	Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: seals broken								
1	Shipping containers received intact and sealed?	~			damaged container leaking container other (describe)								
2	Samples requiring cold preservation within (4 +/- 2 C)?	V			Preservation Method: blue ice dry ice none ther (describe) pk. g mat-								
3	Chain of custody documents included with shipment?	V											
4	Sample containers intact and sealed?	V			Circle Applicable: seals broken damaged container leaking container other (describe)								
5	Samples requiring chemical preservation at proper pH?		V	- 1	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:								
6	VOA vials free of headspace (defined as < 6mm bubble)?		V	5	Sample ID's and containers affected:								
7	Are Encore containers present?			. (If yes, immediately deliver to Volatiles laboratory)								
8	Samples received within holding time?	/		I	d's and tests affected:								
9	Sample ID's on COC match ID's on bottles?	/		S	Sample ID's and containers affected:								
10	Date & time on COC match date & time on bottles?	7		S	Sample ID's affected:								
11	Number of containers received match number indicated on COC?	V		S	Sample ID's affected:								
12	COC form is properly signed in relinquished/received sections?	1											
Cor	numents:	12	<u> </u>	10	F7403 9189 3668								

GEL	Laboratories LLC
------------	------------------

CI	ient: Enerco	72			SDG/ARCOC/Work Order: 195022	
Re	ceived By:				Date Received: 10-4-07	•
Su	spected Hazard Information	Yes	ů		ounts $> x2$ area background on samples not marked "radioactive", contact adiation Safety Group of further investigation.	ct
CC	OC/Samples marked as radioactive?	\mathbb{L}_{-}	1	Maxi	mum Counts Observed*: 80 cpm	
Čla	assified Radioactive II by RSO?		1			
CC	OC/Samples marked containing PCBs?	L	1			
Sh	pped as a DOT Hazardous?	L	1	Haza	rd Class Shipped: UN#:]
Sa	nples identified as Foreign Soil?	L	1	<u> </u>		
	Sample Receipt Criteria	Yes	Z	o _N	Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	V			Circle Applicable: seals bro damaged container leaking container other (describe))ken
2	Samples requiring cold preservation within (4 +/- 2 C)?		V		Preservation Method: ice b blue ice dry ice none other (describe)	ags
3	Chain of custody documents included with shipment?	1				
4	Sample containers intact and sealed?	/			Circle Applicable: seals bro damaged container leaking container other (describe)	ken
5	Samples requiring chemical preservation at proper pH?	·			Sample ID's, containers affected and observed pH:	
6	VOA vials free of headspace (defined as < 6mm bubble)?				ample ID's and containers affected:	
7	Are Encore containers present?				If yes, immediately deliver to Volatiles laboratory)	
8	Samples received within holding time?	V		I	d's and tests affected:	
9	Sample ID's on COC match ID's on bottles?	V		S	ample ID's and containers affected:	
10	Date & time on COC match date & time on bottles?	$\sqrt{}$		S	ample ID's affected:	
11	Number of containers received match number indicated on COC?	V		S	ample ID's affected:	
12	COC form is properly signed in relinquished/received sections?	V				
Cor	0 . –				B 98/19098	7
	12 1	= 10) F	74	0393747274 "9175 6253 "9468 1088	
						-
	DM (or DMA)ione Initia	ole.		. (GMAD DOLD 10/11/12	

GEL Quote #:	GEL Chain of Custody and Analytical Request General Engineering 2040 Savage Road Charleston, SC 2940	77						
COC Number (1): 030-07 GEL Wo	171							
Client Name: Enercon Services Inc	Fax: (843) 766-1178							
Project/Site Name: Humboldt Bay N		< Preservative Type (6)						
Address: 1000 King Salmon Aver	nul, Fureka, MA 95503 considered: 5 8							
Collected by: William DeGuerre & Send Resu		Comments Note: extra sample is						
Sample ID * For composites - Indicate start and stop date/time	tts To: Corey Sewith *Date Collected Collected (Military) (Military) (hhmm) (mm-dd-yy) (hhmm) *Date Collected Collected (Military) (ii) Filtered (iii) Matrix (iv) Filtered (iv) (required for sample specific QC						
AREA - 005553-6	091807 0930 N NASO 1X							
005593-8	09/807 1000 N NA SO 1X							
005553-10	091807 1020 N N/A SO 1X							
005553-11	091807 1040 N N/A SO 1X							
005883-12	091807 1100 N NA SO 1							
005553-13	091807 1120 N NA SO 1	·						
005553-14	0918071140 N N/A SO 1							
005583-05	0918071600 N N/A SO 1							
N	N N/N/N/N							
A	A A A A A							
TAT Requested: Normal: Rush: Specify:	(Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1	/ Level 2 / Level 3 / Level 4						
Remarks: Are there any known hazards applicable to	o these samples? If so, please list the hazards Easter Centry Mount	ral Other						
Chain of Custo Relinquished By (Signed) Date Time	ody Signatures Sample Shipping and Delivery I Received by (signed) Date Time	Details						
	GEL PM:							
Que thomas 091807 1600		6300						
2 Japo Thomas 092807 1400	29 Jun Voluto 90/8/07 9/15 Airbill #: 12 F/O F/74 03 9004	5308						
1.) Chain of Custody Number = Client Determined	Airbill #:	For Lab Receiving Use Only						
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fleld Duplicate, E 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample v	B = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite was field filtered or - N - for sample was not field filtered.	Custody Seal Intact?						
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water	er, WW=Waste Water, W-Water, SO-Soil, SD-Sediment, SL-Sludge, SS-Solid Waste, O-Oil, F-Filter, P-Wipe, U-Urinc, F-Fecal, N-Nasal	YES NO						
.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). Cooler Temp: Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfatt, If no preservative is added = leave field blank								

Page: of	GEL Ch	ain of Cus	stody	and	l A	nal	lyti	cal	Req	ues	t	20	eneral En 40 Savag arleston	ge Road	1	oratories, LLC
COC Number (1): 021-07 PO Number:	GEL Work Order Num	ber:					190	,15	7			- 1	one: (84 x: (843)			
Client Name: Enercon Service	ros Inc.	Phone #: / (72	4) 733	-8711			<u>_</u>			Reque	sted (5)					ners for each test)
Project/Site Name: Humbold+		Fax #: 1 (724			Shoul	d this	iners	•		T	T					< Preservative Type (6)
iddress: 1000 King Salmon Avenue- Eure Ka CA 95503 considered: 8 8																
Collected by: William DeGuerre Send Results To: COREY DeWitt											Comments Note: extra sample is					
Sample ID * For composites - indicate start and stop date/	*Date Collected	*Time Collected QC Code (Military) (hhmm)		Sample	Radioactive	TSCA Regulated	Total number of	GAMMA								required for sample specific QC
AREA - 005SS3-	7 09-07-07	1100 N	NA	SO			1	X								
005883-	9 09-07-01	1120 N		50				X								
005553-	4 09-07-07	1140 N		50			1	\boxtimes								
005553-	2 09-07-07	1200 N		50			1	X								·
0055\$3-	1 09-07-07	1240 N		SO			1	X								
005SS3-3	3 09-07-07	1300 N	W	50			1	X			_					
N .		I All	ļ.,		ļ,	W					_					
	/ \/_	11			<u> </u>	Ľ,	/				<u> </u>			-		
A			<i> </i> -	\	-		1									
	/ / / /		1	1	\angle									١		
TAT Requested: Normal: Rush: S Remarks: Are there any known hazards as		rge) Fax Results:	Yes		N	0	Ci	rcle De	liverable	e: C of	A / C	C Sumn	nary /			vol 2 / Level 3 / Level 4 ection Time Zone
Remarks: Are inere any known nazaras ap	opticable to these samples	ty so, piease iis	ine na	tarus										East Cen	tern tral untain	Pacific Other
and the second s	in of Custody Signatures	anad) Data	Т:			ļ				Sa	mple S	hippin	g and D	elivery	Detai	ls
Relinquished By (Signed) Date Tim		4	Time			GEL	PM:			- 00			•			
Jagce Thomas 690707 /	300 Dayce	hornap 907	07	<u> </u>	· -	Meth		hipmen		<u> 195</u>			ate Ship	ped:	09	2807
Sept Momas 012807	1400 2 4 Just	words 4	olslo	79	115	Airbi	11 #:	12	<i>-</i>	10	E'	4 0	23	90	04	5308
1.) Chain of Custody Number = Client Determined	[3 (/					Airbi	#;								Τ-	· · · · · · · · · · · · · · · · · · ·
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fig. 3.) Field Filtered: For liquid matrices, indicate with a - Y - for		•		Matrix Spil	ke Dupl	icate Sa	mple, C	= Grab	C = Comp	posite						For Lab Receiving Use Only
4.) Matrix Codes: DW-Drinking Water, GW-Groundwater, S	W=Surface Water, WW=Waste Water,	W=Water, SO=Soil, SD	=Sediment,	_				Dil , F ≠Fi	lter, P=Wi	pe, U≖Ui	ine, F=Fe	cal, N=Nas	ıal			Custody Seal Intact? YES NO
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). Cooler Temp: 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank									Cooler Temp:							

GEL	Laboratories LLC
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CI	ient: Enercon				SDG/ARCOC/Work Order: 195257
Re	ceived By:				Date Received: (0/8/57
Su	spected Hazard Information	Yes	No.		Counts > x2 area background on samples not marked "radioactive", contact- tadiation Safety Group of further investigation.
CC	OC/Samples marked as radioactive?		X	Max	imum Counts Observed*: to Am
Cl	ssified Radioactive II by RSO?		X		
CC	C/Samples marked containing PCBs?		1		
Sh	pped as a DOT Hazardous?		18	Haza	rd Class Shipped: UN#:
Sa	nples identified as Foreign Soil?		X		
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: . seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)?		X		Preservation Method: ice bags blue ice dry ice none other (describe)
3	Chain of custody documents included with shipment?	X			G.
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical , preservation at proper pH?		X	1	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	\langle		\ 1	ld's and tests affected:
9	Sample ID's on COC match ID's on bottles?	$\langle \rangle$		(Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X		3	Sample ID's affected:
11	Number of containers received match number indicated on COC?	Y		9	Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			
Cor	nments:				
		Ċ	<i>ا</i> ر	9	1ZF10F740390045305
	•				
	PM (or PMA) review: Initia	als			WMS Date 10/8/07

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

ENRC002 Enercon Services, Inc.

Client SDG: 201361 GEL Work Order: 201361

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- H Analytical holding time was exceeded
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

005SS3-6

Sample ID:

201361025

Matrix:

Soil

Collect Date: Receive Date:

18-SEP-07 09:30

08-OCT-07

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method
									

Rad Liquid Scintillation Analysis

LSC. Tritium Dist, Solid

.Tritium

-6.71E-01 +/-2.96E+00 5.33E+00 6.00E+00

pCi/g

Project:

Client ID:

RXE1 02/01/08 1246 720775

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID: Sample ID:

005SS3-8

201361026

Matrix:

Soil

Collect Date: Receive Date:

Qualifier

18-SEP-07 10:00 08-OCT-07

Collector:

Client

Parameter

Result Uncertainty DL

RLUnits · DF AnalystDate

ENRC00200

ENRC002

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

-4.69E-01 +/-2.98E+00 5.35E+00 6.00E+00

pCi/g

RXE1 02/01/08 1318 720775

Report Date: February 7, 2008

The following Analytical Methods were performed

Method

Description

Analyst Comments

Project: Client ID:

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID: Sample ID:

Matrix:

Collect Date: Receive Date:

Qualifier

18-SEP-07 10:20 08-OCT-07

005SS3-10

201361027

Collector:

Client

Soil

Parameter

Result Uncertainty DLRL Units AnalystDate Time Batch Method

Project:

Client ID:

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

4.05E-01 +/-3.00E+00 5.29E+00 6.00E+00

pCi/g

RXE1 02/01/08 1350 720775

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method

Description

Analyst Comments

1

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

005SS3-11 201361028

Soil

Matrix:

Collect Date: Receive Date:

18-SEP-07 10:40 08-OCT-07

Collector:

Client

Parameter

Result Uncertainty

Qualifier

DL

RL

Units

Project: Client ID:

> DF AnalystDate

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

0.00E+00 +/-2.93E+00 5.19E+00 6.00E+00

pCi/g

RXE1 02/01/08 1422 720775

Report Date: February 7, 2008

ENRC00200 ENRC002

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID: Sample ID:

Matrix:

201361029 Soil

Collect Date:

Receive Date:

Qualifier

18-SEP-07 11:00 08-OCT-07

005SS3-12

Collector:

Client

Parameter

Result Uncertainty DLRLUnits AnalystDate Time Batch Method

Project: Client ID:

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

2.56E+00 +/-3.18E+00 5.37E+00 6.00E+00

pCi/g

RXE1 02/01/08 1453 720775 1

Report Date: February 7, 2008

ENRC00200 ENRC002

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID: Sample ID:

Matrix:

Collect Date:

Soil

18-SEP-07 11:20 08-OCT-07

005SS3-13

201361030

Receive Date: Collector:

Client

Parameter Qualifier Result Uncertainty DL RL Units DF Time Batch Method AnalystDate

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

1.86E+00 +/-3.10E+00 5.30E+00

pCi/g

Project:

Client ID:

RXE1 02/01/08 1525 720775

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method **Analyst Comments** Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

005SS3-14

Sample ID:

201361031

Matrix:

Soil

Collect Date:

18-SEP-07 11:40

Receive Date:

08-OCT-07

Collector:

U

Client

Parameter

Qualifier Result Uncertainty DL RLUnits DF AnalystDate Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

2.00E+00 +/-3.06E+00 5.22E+00 6.00E+00

pCi/g

Project:

Client ID:

RXE1 02/01/08 1557 720775

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

201361032

Matrix:

Soil

Collect Date:

18-SEP-07 16:00

Receive Date:

08-OCT-07

005SS3-05

Collector:

Client

Parameter

Qualifier Result Uncertainty

DL RL

Units

Project: Client ID:

DF AnalystDate Time Ba

ENRC00200 ENRC002

Report Date: February 7, 2008

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

U

4.03E-01 +/-2.98E+00 5.25E+00 6.00E+00

pCi/g

RXE1 02/01/08 1629 720775

The following Analytical Methods were performed

Method

Description

Analyst Comments

...

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

Matrix:

Collect Date:

Soil 07-SEP-07 11:00

Receive Date:

08-OCT-07

005SS3-7

201361033

Collector:

Client

Parameter

Qualifier Result Uncertainty

RL DL

Units

Project:

Client ID:

DF AnalystDate

ENRC00200

ENRC002

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

1.14E-01 +/-2.93E+00 5.20E+00 6.00E+00

pCi/g

RXE1 02/01/08 1701 720775

Report Date: February 7, 2008

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID: Sample ID:

005SS3-9

201361034

Matrix:

Soil

Collect Date:

07-SEP-07 11:20

Receive Date:

08-OCT-07

Collector:

Client

Parameter

Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

-5.77E-01 +/-2.93E+00 5.27E+00 6.00E+00

pCi/g

RXE1 02/01/08 1733 720775 1

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method

Description

Analyst Comments

Project:

Client ID:

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

005SS3-4 201361035

Matrix:

Soil

Collect Date: Receive Date:

07-SEP-07 11:40 08-OCT-07

DL

Collector:

Client

Parameter Qualifier Result Uncertainty Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

-2.02E+00 +/-2.84E+00 5.26E+00 6.00E+00

pCi/g

Units

RL

RXE1 02/01/08 1805 720775

Report Date: February 7, 2008

ENRC00200

AnalystDate

ENRC002

Time Batch Method

The following Analytical Methods were performed

Method

Description

Analyst Comments

Project:

Client ID:

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

Matrix:

Collect Date:

07-SEP-07 12:00 08-OCT-07

Receive Date: Collector:

Client

Soil

Qualifier

Result Uncertainty

005SS3-2

201361036

DLRL

Units

DF AnalystDate

ENRC00200

ENRC002

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Parameter

4.91E-01 +/-3.00E+00 5.28E+00 6.00E+00

pCi/g

RXE1 02/01/08 1837 720775

Report Date: February 7, 2008

The following Analytical Methods were performed

Method

Description

Analyst Comments

Project:

Client ID:

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

005SS3-1 201361037

Sample ID: Matrix:

Soil

Collect Date:

07-SEP-07 12:40

Receive Date:

08-OCT-07

Collector:

Client

Parameter

Qualifier Result Uncertainty DL RLUnits DF AnalystDate Time Batch Method

Project:

Client ID:

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium

2.12E+00 +/-3.07E+00 5.22E+00 6.00E+00

pCi/g

RXE1 02/01/08 1909 720775. .1

Report Date: February 7, 2008

ENRC00200

ENRC002

The following Analytical Methods were performed

Method

Description

Analyst Comments

1

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

Enercon Services, Inc.

Address:

4499 Old William Penn Highway

Murrysville, Pennsylvania 15668

Contact:

Mr. Dustin G. Miller

Project:

Humboldt Bay NPP soils

Client Sample ID:

Sample ID:

Matrix:

Collect Date:

07-SEP-07 13:00

Receive Date:

08-OCT-07

005SS3-3

201361038

Collector:

Client Result Uncertainty

Soil

Parameter	
-----------	--

Qualifier

RL

DL

Units

Project: Client ID:

DF AnalystDate

ENRC00200

ENRC002

Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

1.92E+00 +/-3.07E+00 5.24E+00 6.00E+00

pCi/g

RXE1 02/01/08 1940 720775

Report Date: February 7, 2008

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 7, 2008

Page 1 of 2

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Enercon Services, Inc. 4499 Old William Penn Highway Murrysville, Pennsylvania

Mr. Dustin G. Miller

Workorder:

Contact:

201361

NOM	Sample	Qual QC	Units	RPD%	REC%	Range Anlst	Date Time
			•			•	
							•
	U -1.92E+00 +/-2.21E+00	U4.48E-01 +/-2.40E+00	pCi/g	0		N/A RXE1	02/07/08 02:04
	•						
2.05E+01		1.99E+01 +/-5.13E+00	pCi/g		• 97	(75%-125%)	02/07/08 02:44
						*	
	·	U -1.00E+00 +/-2.18E+00	pCi/g				02/07/08 01:41
2.16E+01	U -1.92E+00 +/-2.21E+00	2.46E+01 +/-5.76E+00	pCi/g		114	(75%-125%)	02/07/08 02:26
				,	•		
	U -3.69E-01	U 1.66E+00	pCi/g	0		N/A RXEI	02/01/08 20:44
•	+/-2.90E+00	+/-2.95E+00					
4.06E+01		3.84E+01 +/-6.69E+00	pCi/g		95	(75%-125%)	01/27/08 02:47
		U -4.30E-01 +/-2.74E+00	pCi/g				02/01/08 20:12
4.20E+01	U -3.69E-01	4.69E+01	pCi/g		112	(75%-125%)	01/27/08 02:31
	4.06E+01	+/-2.21E+00 2.05E+01 U -1.92E+00 +/-2.21E+00 U -3.69E-01 +/-2.90E+00 4.06E+01	+/-2.21E+00 +/-2.40E+00 2.05E+01				

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N/A RPD or %Recovery limits do not apply.

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 201361 Page 2 of 2 RPD% REC% Parmname NOM Sample Qual Units Range Date Time ND Analyte concentration is not detected above the detection limit NJConsult Case Narrative, Data Summary package, or Project Manager concerning this qualifier R Sample results are rejected Analyte was analyzed for, but not detected above the MDL, MDA, or LOD. U UI Gamma Spectroscopy--Uncertain identification Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier QC Samples were not spiked with this compound RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

Preparation or preservation holding time was exceeded

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all **of the** requirements of the NELAC standard unless qualified on the QC Summary.

[^] The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

^{*} Indicates that a Quality Control parameter was not within specifications.

List of current GEL Certifications as of 07 February 2008

Certification
UST-062
AZ0668
88-0651
42D0904046
01151CA
GenEngLabs
PH-0169
NFESC 413
WG-15J
E87156
E87156 (FL/NELAP)
N/A
N/A
200029
C-SC-01
E-10332
90129
03046
270
M-SC012
9903
SC12
SC002
FL NELAP E87 156
11501
233
45709
R-158
9904
68-00485
10120001/10585001/1 0120 002
. 02934
T104704235-07- TX
S-52597
N/A
8037697376 GEL
VT87156
00151
C1641

ATTACHMENT 3

A Drawing Of The Sample Locations And Laboratory Analysis Results



55 2nd Street Suite 575 San Francisco, CA 94105

415.644.3000 PHONE 415.541.9378 FAX

www.TRCsolutions.com

August 27, 2008

Project No. 161072 C-007

Mr. David Sokolsky Pacific Gas and Electric Company 1000 King Salmon Avenue Eureka, CA 95503

Radiological Sampling Data and Demolition/Remediation Schedule Humboldt Bay Repowering Project PG&E Humboldt Bay Power Plant 1000 King Salmon Avenue, Eureka, CA 95503

Dear Mr. Sokolsky:

As discussed during our telephone conference call on August 25, 2008, please find attached the following items:

- Remedial Investigation (RI) Report Table 1, Cesium-137 Radiological Sampling Data
- RI Report Table 2, Isotopes Other than Cesium-137
- RI Report Figures 1-5,
- July 14-17, 2008 Radiological Field Screening Results
- · Demolition and Remediation Schedule; and
- GEL Laboratory Data sheets.

As both TRC and Enercon indicated, this site has been thoroughly investigated and there are no radiological issues of concern as they relate to the demolition/remediation project scheduled for September 29, 2008 through October 31, 2008. Enercon is our team's NRC expert and feel free to contact Keith Mahosky with any detailed questions in that regard.

David Sokolsky August 27, 2008 Page 2

Please contact Deems Padgett at (415) 644-3001 or Alan Lui at (415) 644-3004 with any other questions.

Sincerely,

Deems C. Padgett, PG Project Director

Alan Lui, PE Principal Engineer

cc:

John Albers, PG&E Joseph Sutton, PG&E Keith Mahosky, Enercon

Encl



TABLES

Sample Number	Sample Type	Collection Date	6/i.a. Cesium-137	ÖCi/a)
B-1-0.5 Gamma	SAMPLE	07/15/08	0.200	0.0772
B-1-4.5 Gamma	SAMPLE	07/15/08	U -0. 00 513	0.0374
B-2-1.0 Gamma	SAMPLE	07/15/08	U 0.0259	0.0261
B-2-1.0 Gamma	DUP	07/15/08	U -0. 00 0777	0.0214
B-2-4 0 Gamma	SAMPLE	07/15/08	U 0.0185	0.0244
B-2-7.0 Gamma	SAMPLE	07/15/08	U 0. 01 23	0.0333
B-3-1.0 Gamma	SAMPLE	07/15/08	U -0. 002 95	0.0308
B-3-4.0 Gamma	SAMPLE	07/15/08	U -0. 01 02	0.0283
B-4-1.0 Gamma	SAMPLE	07/16/08	U -0. 00 459	0.0529
B-4-4.0 Gamma	SAMPLE	07/16/08	U 0. 01 04	0.036
B-5-0.5 Gamma	SAMPLE	07/15/08	U 0. 01 26	0.0177
B-5-4.5 Gamma	SAMPLE	07/15/08	U 0. 019 6	0.0432
B-6-1.0 Gamma	SAMPLE	07/15/08	U -0. 009 26	0.0266
B-6-4.0 Gamma	SAMPLE	07/15/08	U -0. 01 63	0.0414
B-6-7.0 Gamma	SAMPLE	07/15/08	U -0. 005 89	0.0511
B-7-0.5 Gamma	SAMPLE	07/15/08	U -0. 009 61	0.0205
B-7-4.5 Gamma	SAMPLE	07/15/08	U 0. 008 87	0.0394
B-7-7.5 Gamma	SAMPLE	07/15/08	U -0. 0017 5	0.0443
B-8-0.5 Gamma	SAMPLE	07/16/08	0. 116	0.0461
B-8-4:5 Gamma	SAMPLE	07/16/08	0. 175	0.0753
B-9-0.5 Gamma	SAMPLE	07/15/08	U -0.0 008 48	0.0219
B-9-4.5 Gamma	SAMPLE	07/15/08	U 0. 022 6	0.0248
B-9-7.5 Gamma	SAMPLE	07/15/08	U -0. 017 6	0.038
B-10-0.5 Gamma	SAMPLE	07/16/08	U 0. 010 4	0.0234
B-10-4.5 Gamma	SAMPLE	07/16/08	U -0. 014 7	0.0371
B-11-1.0 Gamma	SAMPLE	07/15/08	U -0. 0016 4	0.0178
B-11-4.0 Gamma	SAMPLE	07/15/08	U -0. 0063 9	0.0345

Table 1
Radiological Soil Sampling Data
(Cesium-137)
Humboldt Bay Repowering Project
Eureka, California

Sample Number	Sample Type	Collection Date	OSium-137	(bCi/a)
B-1-0.5 Gamma	SAMPLE	07/15/08	0.200	0.0772
B-11-7.0 Gamma	SAMPLE	07/15/08	U 0. 0 49	0.0631
B-12-1.0 Gamma	SAMPLE	07/16/08	0.096	0.0609
B-12-4.0 Gamma	SAMPLE	07/16/08	U 0.0108	0.0347
B-13-0.5 Gamma	SAMPLE	07/14/08	U 0. 01 87	0.0372
B-13-4.5 Gamma	SAMPLE	07/14/08	U -0. 01 74	0.0254
B-13-4.5 Gamma	DUP	07/14/08	U -0. 01 61	0.0199
B-13-7.5 Gamma	SAMPLE	07/14/08	U -0. 01 71	0.0292
B-14-0.5 Gamma	SAMPLE	07/14/08	U -0.0164	0.0236
B-14-4.5 Gamma	SAMPLE	07/14/08	U -0.00831	0.0166
B-14-7.5 Gamma	SAMPLE	07/14/08	U -0. 02 64	
B-15-1.0 Gamma		07/14/08		0.0233
B-15-4.0 Gamma	SAMPLE		U 0.0244	0.0326
	SAMPLE	07/14/08	U 0. 012 8	0.0271
B-16-1.0 Gamma	SAMPLE	07/14/08	U 0.0238	0.0306
B-16-1.0 Gamma	DUP	07/14/08	0.075	0.0362
B-16-4.0 Gamma	SAMPLE	07/14/08	U 0.0208	0.031
B-16-7.0 Gamma	SAMPLE	07/14/08	U 0.0 04 01	0.0213
B-17-0.5 Gamma	SAMPLE	07/14/08	U 0. 016 9	0.0294
B-17-4.5 Gamma	SAMPLE	07/14/08	U -0. 010 5	0.0333
B-17-7.5 Gamma	SAMPLE	07/14/08	U 0.0274	0.0265
B-18-0.5 Gamma	SAMPLE	07/16/08	U 0.0123	0.0203
B-18-4.5 Gamma	SAMPLE	07/16/08	U -0.0132	0.0313
B-19-0.5 Gamma	SAMPLE	07/16/08	'U -0.0 17 1	0.0337
B-19-4.5 Gamma	SAMPLE	07/16/08	U -0.0 10 8	0.0327
B-20-0.5 Gamma	SAMPLE	07/14/08	U_0.0207	0.0291
B-20-4.5 Gamma	SAMPLE	07/14/08	U -0.0114	0.0296
B-20-7.5 Gamma	SAMPLE	07/14/08	U -0.0 098 7	0.0243

	<u></u>	·	,	
Sample Number	Sample Type	Collection Date	обу. (б/с). (б/с).	d) Oncertainty (a)
B-1-0.5 Gamma	SAMPLE	07/15/08	0.200	0.0772
B-21-1.0 Gamma	SAMPLE	07/17/08	U 0.0102	0.0583
B-21-4.0 Gamma	SAMPLE	07/17/08	U -0.00859	0.0569
B-22-1.0 Gamma	SAMPLE	07/17/08	U 0.0421	0.0333
B-22-4.0 Gamma	SAMPLE	07/17/08	U 0. 00 994	0.0555
B-23-1.0 Gamma	SAMPLE	07/17/08	U 0.00923	0.0371
B-23-4.0 Gamma	SAMPLE	07/17/08	U -0. 0 454	0.0553
B-24-0.5 Gamma	SAMPLE	07/17/08	0.090	0.047
B-24-4.5 Gamma	SAMPLE	07/17/08	1.230	0.146
B-24-4.5 Gamma	SAMPLE	07/17/08	1.230	0.206
B-24-4.5 Gamma	DUP	07/17/08	1.200	0.147
B-25-1.0 Gamma	SAMPLE	07/17/08	U -0. 001 89	0.0375
B-25-4.0 Gamma	SAMPLE	07/17/08	U -0. 01 41	0.0177
B-26-1.0 Gamma	SAMPLE	07/16/08	0.109	0.0494
B-26-4.0 Gamma	SAMPLE	07/16/08	U -0. 002 52	0.0228
B-27-1.0 Gamma	SAMPLE	07/17/08	0.152	0.0732
B-27-4.0 Gamma	SAMPLE	07/17/08	U 0.0 09 57	0.054
B-28-0.5 Gamma	SAMPLE	07/17/08	U 0.0 04 91	0.0241
B-28-4.5 Gamma	SAMPLE	07/17/08	U -0. 006 78	0.0204
B-29-0.5 Gamma	SAMPLE	07/17/08	0.113	0.0674
B-29-4.5 Gamma	SAMPLE	07/17/08	U 0.00 5 04	0.0217
B-30-1.0 Gamma	SAMPLE	07/14/08	U 0.00886	0.0307
B-30-4.0 Gamma	SAMPLE	07/14/08	U 0.0315	0.0503
B-30-7.0 Gamma	SAMPLE	07/14/08	U -0.017	0.0298
B-31-1.0 Gamma	SAMPLE	07/14/08	U -0.0 083 6	0.022
B-31-4.0 Gamma	SAMPLE	07/14/08	U 0.0241	0.0522
B-32-1.0 Gamma	SAMPLE	07/16/08	U 0.031	0.0309

	,				
Sample Number	Sample Type	Collection Date	bC/pC Cesium-137	(b/iO Uncertainty	
B-1-0.5 Gamma	SAMPLE	07/15/08	0.200	0.0772	
B-32-4.0 Gamma	SAMPLE	07/16/08	U 0.0137	0.0259	
B-32-8.0 Gamma	SAMPLE	07/16/08	U -0.0174	0.0294	
B-33-0.5-Gamma	SAMPLE	07/16/08	U -0.0054	0.0513	
B-33-4.5 Gamma	SAMPLE	07/16/08	U -0.0382	0.0412	
B-34-1.0 Gamma	SAMPLE	07/16/08	U -0.00795	0.0235	
B-34-1.0 Gamma	DUP	07/16/08	U -0. 0 593	0.0423	
B-34-4.0 Gamma -	SAMPLE	07/16/08	U -0. 0 176	0.0282	
B-34-8.0 Gamma	SAMPLE	07/16/08	U 0. 01 08	0.0384	
PS-01C-1.0 Gamma	SAMPLE	07/15/08	U -0. 007 91	0.029	
PS-01C-4.0 Gamma	SAMPLE	07/15/08	U 0. 0 022	0.0308	
PS-01C-7.0 Gamma	SAMPLE	07/15/08	Ú 0. 008 52	0.0287	
PS-02C-0.3 Gamma	SAMPLE	07/15/08	U 0. 007 02	0.0422	
PS-02C-4.5 Gamma	SAMPLE	07/15/08	U 9. 82E -06	0.0299	
PS-02C-4.5 Gamma	DUP	07/15/08	U 0. 021 7	0.0361	
PS-02C-7.5 Gamma	SAMPLE	07/15/08	U -0. 01 74	0.0442	
PS-06C-0.5 Gamma	SAMPLE	07/16/08	U 0. 01 95	0.0262	
PS-06C-2.0 Gamma	SAMPLE	07/16/08	U 0. 005 29	0.023	
PS-06C-6.5 Gamma	SAMPLE	07/16/08	U -0. 001 26	0.0394	
PS-10C-1.0 Gamma	SAMPLE	07/14/08	U 0.0 09 63	0.0333	
PS-10C-4.0 Gamma	SAMPLE	07/14/08	U -0. 020 9	0.035	
PS-10C-7.0 Gamma	SAMPLE	07/14/08	U -0.0 08 09	0.0302	
PS-11C-0.3 Gamma	SAMPLE	07/16/08	U -0. 010 4	0.040	
PS-11C-1.5 Gamma	SAMPLE	07/16/08	U -0.0 03 37	0.0388	
PS-11C-1.5 Gamma	DUP	07/16/08	U 0.022	0.0417	
PS-14C-0.3 Gamma					
	SAMPLE	07/14/08	U 0.0338	0.0374	
PS-14C-4.5 Gamma	SAMPLE	07/14/08	U 0.00679	0.037	

Sample Number	Sample Type	Collection Date	6 Cesium-137	ට ට Uncertainty (උ	
B-1-0.5 Gamma	SAMPLE	07/15/08	0.200	0.0772	
PS-14C-7.5 Gamma	SAMPLE	07/14/08	U -0. 001 11	0.023	
PS-20C-0.3 Gamma	SAMPLE	07/17/08	UI 0.0 0	0.0463	
PS-20C-4.5 Gamma	SAMPLE	07/17/08	U 0. 004 48	0.0245	
PS-21C-0.3 Gamma	SAMPLE	07/17/08	0.199	0.042	
PS-21C-4.5 Gamma	SAMPLE	07/17/08	UI 0.0 0	0.0413	
PS-23AC-1.0 Gamma	SAMPLE	07/16/08	U -0. 009 92	0.0426	
PS-23AC-4.0 Gamma	SAMPLE	07/16/08	U 0. 009 02	0.0335	
PS-23BC-0.5 Gamma	SAMPLE	07/16/08	U 0. 014 1	0.0223	

Notes:

U = not detected UI = Uncertain identification pCI/g = picocuries per gram

B-24-4.5 Gamma was the only soil sample with a detected Cesium-137 concentration above 0.5 pCl/g.

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	ති Actinium-228 ලි	ට ටුට Uncertainty රී	ති වූ Americium-241 ලී	ර් රි.රූ රූ (b) Uncertainty	ට ටූ Antimony-124 (රී	ට ටූ Uncertainty (රී	ම වූට Antimony-125 (රි.	ට ටූ Uncertainty ගි	(5/ Barlum-133	Od) Uncertainty
B-24-4.5 Gamma	SAMPLE	07/17/08	UI 0.00	0.357	U -0.0245	0.059	U 0.026	0.142	U 0.0368	0.139	U 0.0427	0.0705
B-24-4.5 Gamma	DUP	07/17/08	UI 0.00	0.279	U -0.0242	0.147	U 0.0494	0.0687	U 0.0619	0.0993	U 0.0236	0.0505

Notes:

U = not detected

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	ට ලූ Barium-140 රී	ට වූ Uncertainty රී	d Ö. Beryllium-7 (Ó.	ð Ö. Uncertainty	ති වූ Bismuth-212 මී	ත් වූට Uncertainty (සි	ට ලි Bismuth-214 (රි.	ð Q Uncertainty (6	(6) Cerlum-139	dCi(g)
B-24-4.5 Gamma	SAMPLE	07/17/08	U 0.289	0.456	U -0.195	0.499	U 0.311	0.467	UI 0.00	0.232	U -0.0109	0.0349
B-24-4.5 Gamma	DUP	07/17/08	U 0.183	0.391	U -0.398	0.398	U 0.199	0.341	UI 0.00	0.124	U -0.00143	0.0252

Notes:

U = not detected

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	(5) Cerium-141	전 전 Uncertainty 色	ට ටූ. Cerium-144 ගී.	ට් ටුට් Uncertainty (6	(5) (6) (6) (6) (6) (7) (7) (7)	ට ටූට Uncertainty (රී	ට ට Cesium-136 (සි	Ф С (G) (G) (G)	ð) Ohromium-51 (É)	(bCi/d) (bCi/d)
B-24-4.5 Gamma	SAMPLE	07/17/08	Ú 0.0285	0.0859	U -0.232	0.214	U -0.0103	0.0597	U -0.074	0.231	U 0.456	0.580
B-24-4.5 Gamma	DUP	07/17/08	U 0.0332	0.0563	U0.073	0.181	U 0.00798	0.0429	U 0.0295	0.163	U -0.43	0.446

Notes:

U = not detected

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	d Ö/Ö/ Cobalt-56	ත් වූට රි රි රි	ට ටු Cobalt-57 ලි	(b) Uncertainty	ට්ට Cobalt-58 ·	d) Oncertainty (6)	(b/iQ)	ර රු Uncertainty (6	b) Europium-152 (a)	OD (6) (a) (b) (a) (b) (c) (d)
B-24-4.5 Gamma	SAMPLE	07/17/08	U 0.0501	0.063	U -0.03	0.0258	U -0.0239	0.0669	U -0.0273	0.0607	U -0.0119	0.145
B-24-4.5 Gamma	DUP	07/17/08	U -0.00669	0.0435	U -0.0122	0.0198	U 0.0368	0.0514	U -0.00413	0.0411	U 0.00413	0.0981

Notes:

U = not detected UI = Uncertain identification

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	ට වූ (රි	ත් වූට Uncertainty (රී.	ට ටූට. Europium-155 (රී.	ට වූට Uncertainty (e)	а .g. Iridium-192 в)	ට ටූ (රි (රි	(bCi/d)	රට වූ Uncertainty (සි	(bCc/d)	ට්ට් (p.j. Uncertainty
B-24-4.5 Gamma	SAMPLE	07/17/08	. U -0.021	0.184	U -0.0637	0.0968	U -0.0351	0.049	U 0.0447	0.156	U 0.521	0.950
B-24-4.5 Gamma	DUP	07/17/08	U -0.0795	0.120	U 0.0755	0.087	U 0.0117	0.0367	U -0.0472	0.0984	U 1.54	4.81

Notes:

U = not detected

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	ලි වි Lead-212	ර්) වූට Uncertainty	රට වි Lead-214	ර ට Uncertainty (සී	ට් වූ Manganese-54 රි.	d Dnoertainty (6)	ර වූ Mercury-203 රිරි	d) C. Oncertainty (6)	ත් වූ Neodymium-147 (රි	(bCi/g)
B-24-4.5 Gamma	SAMPLE	07/17/08	0.456	0.128	0.442	0.144	U -0.0285	0.0578	U -0.0488	0.0556	U 0.0155	1.09
B-24-4.5 Gamma	DUP	07/17/08	UI 0.00	0.138	0.318	0.128	U_0.0244	0.0474	U 0.0279	0.0433	U -0.339	0.989

Notes:

U = not detected UI = Uncertain.identification

Humboldt Bay Repowering Project Eureka, California

Sample Number	Sample Type	Collection Date	o O Neptunium-239 o	ත් ටූ Uncertainty රී	ÖÖ Ö.Ö. Ö.Ö.	ර ලි කි (b)	(p) Niobium-95	ට) Jocertainty (bී/	ට ටූ Potassium-40 සී	ზე Uncertainty (C ()	d) Promethium-144 (6)	ට Ci (Si (Si
B-24-4.5 Gamma	SAMPLE	07/17/08	U -0.162	0.190	U -0.00447	0.0574	U -0.0684	0.0899	9.02	1.50	U 0.0318	0.0604
B-24-4.5 Gamma	DUP	07/17/08	U -0.0258	0.139	U -0.00647	0.0362	U 0.0779	0.0589_	7.19	1.39	U 0.0114	0.0382

Notes:

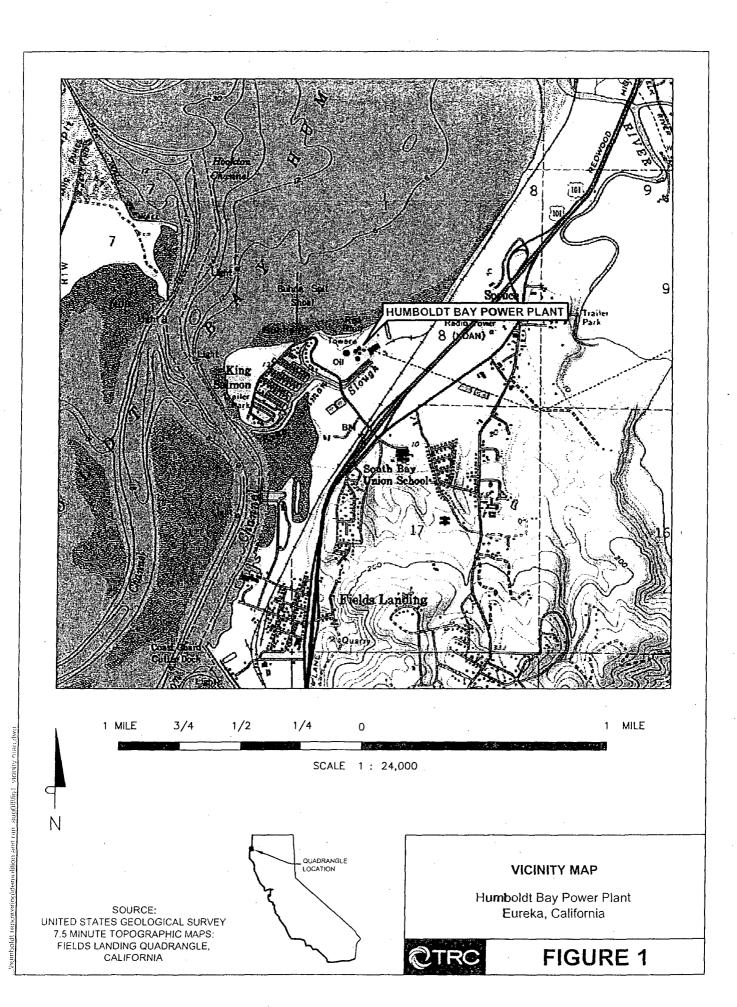
U = not detected UI = Uncertain identification

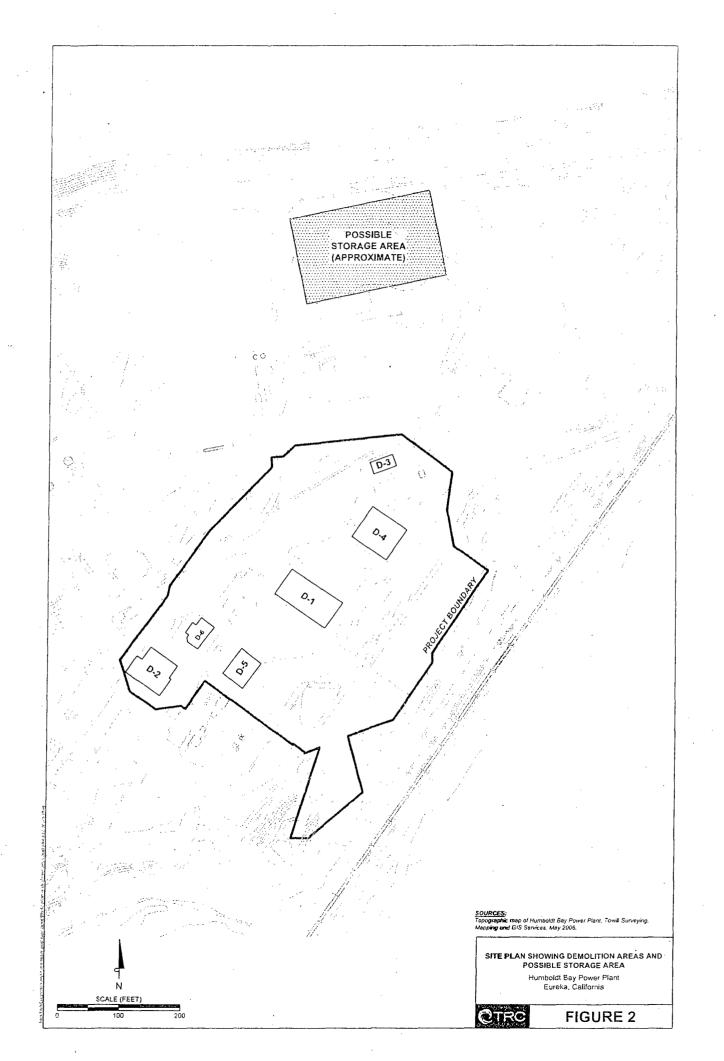
Humboldt Bay Repowering Project Eureka, California

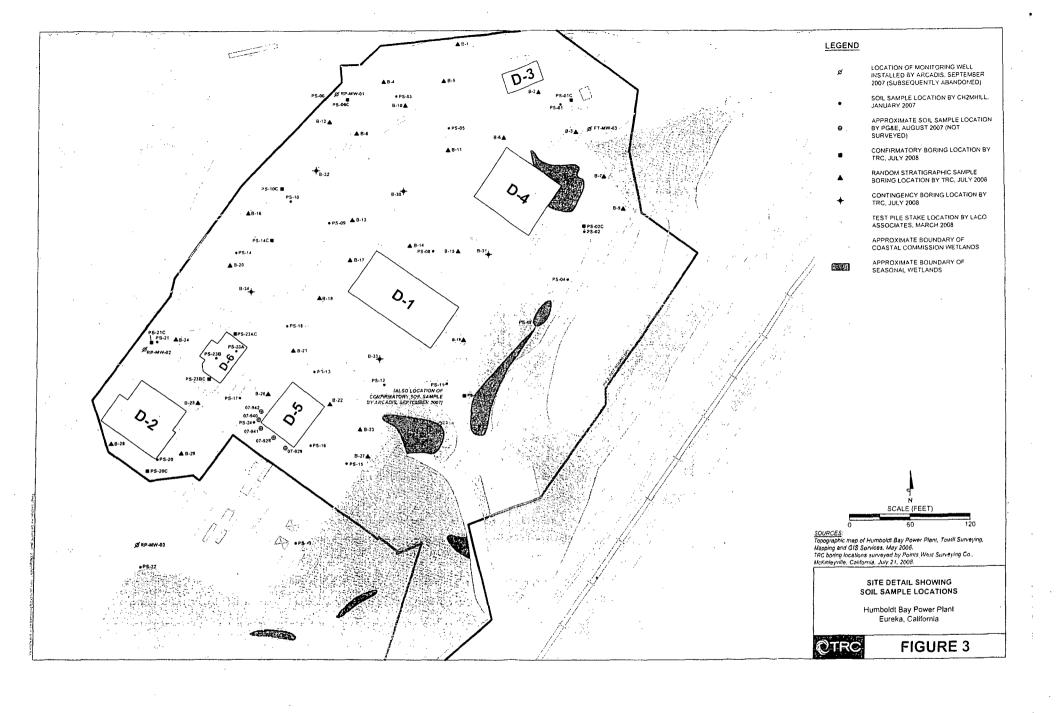
Sample Number	Sample Type	Collection Date	d) O Promethium-146 (6)	ට ටු Uncertainty රී	ට ටු Radium-226 රේ	ට ල්ල් Uncertainty	ට ටු Radium-228 (රි	ති ලි මි	ට ටු Ruthenium-106 රී	ට ට Uncertainty (a)	Ö.S. Silver-110m	d C.S. Uncertainty (d.
B-24-4.5 Gamma	SAMPLE	07/17/08	U -0.0195	0.0645	0.345	0.232	UI 0.00	0.357	U -0.191	0.479	U 0.0353	0.0627
B-24-4.5 Gamma	DUP	07/17/08	U -0.00427	0.0518	0.427	0.124	UI 0.00	0.279	U -0.00615	0.334	U -0.00305	0.0435

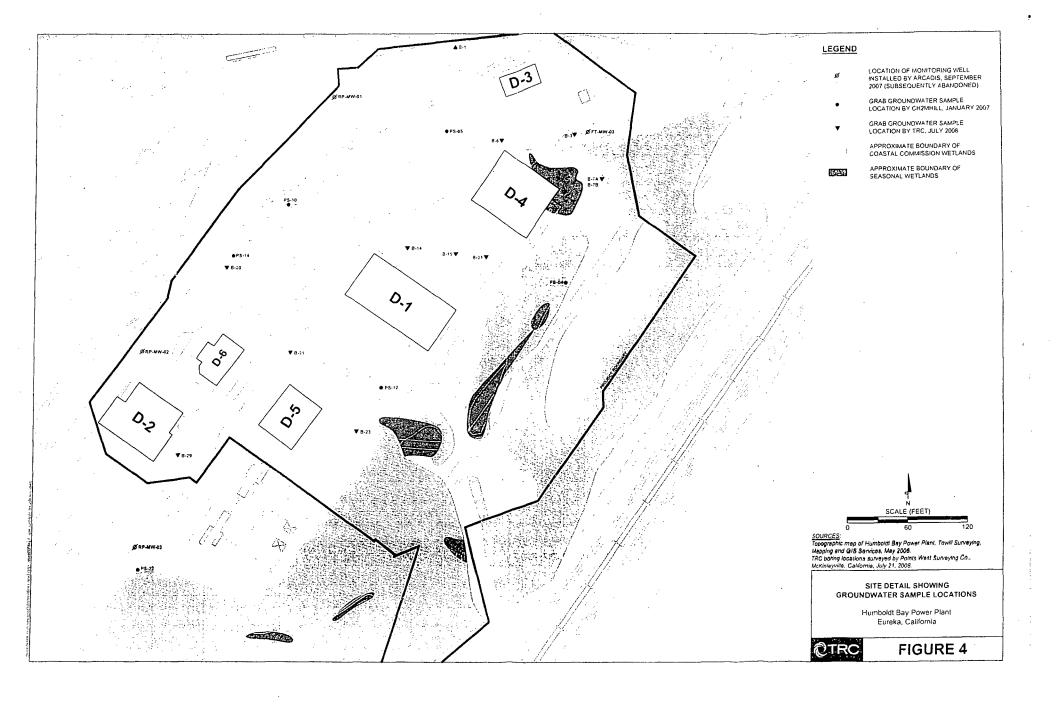
Notes:

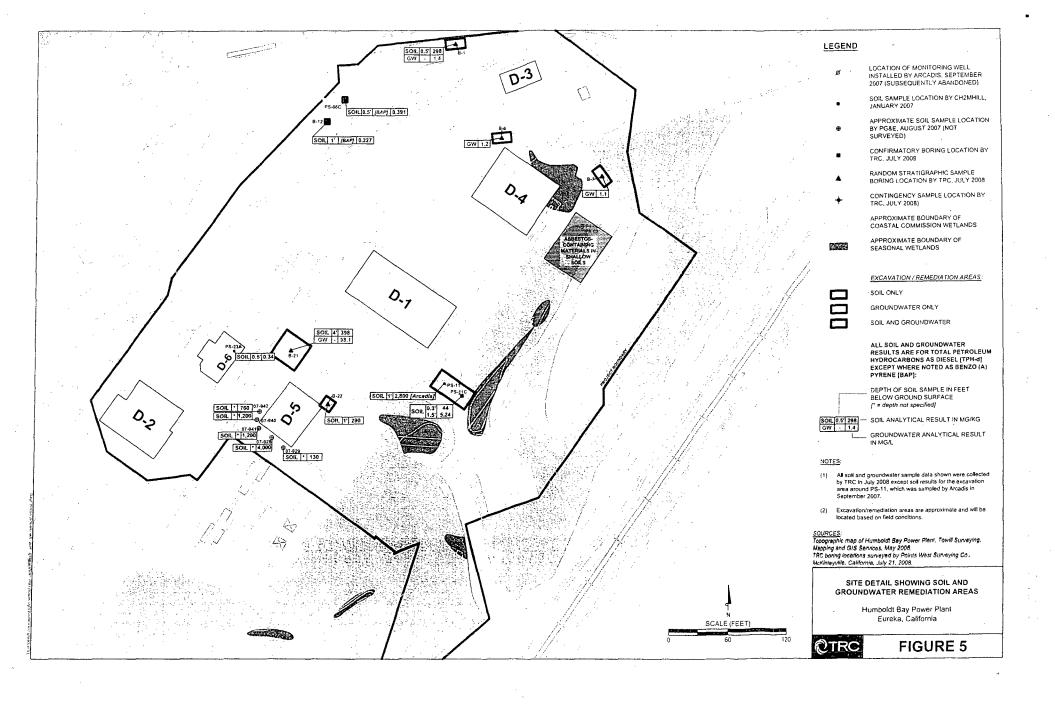
U = not detected UI = Uncertain identification

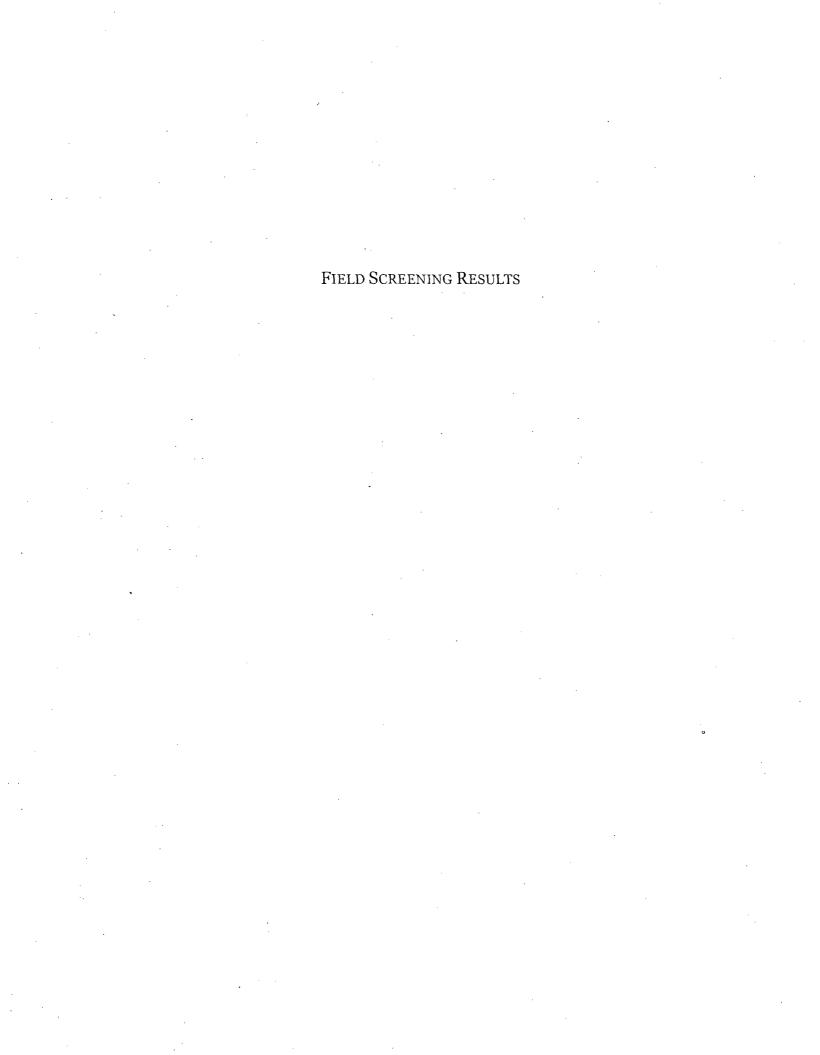












										 			Date	7	/14/2008
Purpose															
Survey :		Soil Chara	acterization	Bore Sa	mples - N	larinelli Sc	reen Only						Log Number	L	08-050 ·
Surv	eyed by:	Phyllis Morr	rison						Signature:				Reviewed By:		
	Instrument	Serial Number	Calibration Due	Probe	Count Time (Min)		Alpha Bkgd : (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA (dpm)		Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
1	Lud 2221	211772	5/12/2009	Nal	1	N/A	N/A	N/A .	N/A	N/A	N/A	N/A	N/A	N/A	1557
2	Detector	206815	5/12/2009	Nal	1	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A	· N/A	N/A	NIA	N/A	N/A	N/A_	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:											-				
Tarris et a	u 1000).		Sample Bo	ore Depth	Gamm	Screen	Remov	ble Beta	Total Sta	tic:Alpha 🥂	Total	Static Beta	βy Do	se Rate	
Smaar #	inot #	Bore Location		X	Net.	CCPM	Net CPM	DPM /	Gross CPM	DPM:/	Gross CPM	DPM / 100cm	%*Contact µR/hr	??Gen. Area μR/hr	NOTES
N/A	ł	B-13	0.50	1	1908	351					-			4	N/A
N/A	1	B-13	4.5		1789	232									
N/A	1	B-13	7.5		1877	320									
N/A	1	B-14	0.5		1826	-269							<u> </u>	<u> </u>	
N/A	. 1	B-14	4.5		1631	74							<u> </u>		
N/A	1	B-14	7.5		1794	237	<u></u>	<u> </u>					<u> </u>		
N/A	1	B-15	1.0		1706	149						ļ <u> </u>	<u> </u>	 	
N/A	1	B-15	4.0		1749	192					ļ		<u> </u>	1	
N/A	1	B-15	7.0		N/A	N/A	·	ļ						1 - 1 -	Wet
N/A	1	B-16	1.0		1943	386	<u> </u>	<u> </u>			ļ	<u> </u>	<u> </u>	1	
N/A	1	B-16	4.0		1957	400					Δ		<u> </u>	 	<u> </u>
N/A	1	B-16	7.0		1741	184	<u> </u>								
N/A	1	B-17	0.5		1866	309	ļ		<u> </u>	<u> </u>	<u> </u>		ļ	 	
N/A	1	B-17	4.5		1893	336	<u> </u>		 -	<u> </u>			 	 -	
N/A	1	B-17	7.0		N/A	N/A		ļ	ļ	ļ.	 -			+	Wet
N/A	11	B-20	0.5	1	1871	314	ļ		 		ļ	 	1		-
N/A	1	B-20	4.5	\	1846	289			ļ		ļ		1->		
N/A	1	B-20	7.5	<u> </u>	2012	455		<u></u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	

													Date		7/14/2008
Purpose Survey :		Soil Char	acterization	Bore Sa	mples - M	arinelli Sc	reen Only						Log Number		08-050
Surv	eyed by:	Phyllis Mor	rison						Signature:				Reviewed By:		
	Instrument	Serial Number	Calibration Due	Probe	Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler, MDA (dpm)	Beta Bkgd (cpm)	Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	, Gamma Bkgd, CPM
1	Lud 2221	211772	5/12/2009	Nai	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1557
2	Detector	206815	5/12/2009	Nai	1	2x2	N/A	N/A	N/A	N/A	NIA	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	NIA	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A

Remarks:															
			Cample Ro	Denth	Gamm	- Darman (1998)	Pemov	LI-TRACTICS	245 Total Stat	in Alpha S	Total	Static Beta	8v Dos	a Pate	Tation of
Smear #	Halv Halv	Bore Location		V Cool	Net	CCBM	Net	DPM*/	Gross-	DPM //	Gross	DPM 1100	Contact µR/hr	Gen. Area μR/hr	NOTES
N/A		B-30	1.0	11.00014.	1847	290		or TOOCHI Speed	gr. Aar Cran ag sae	100cm	OF M	Drin', Tooch		4	
N/A	1	B-30	4.0		1776	219									
N/A	1	B-30	7.0		1876	319						· ·			
N/A	1	B-31	1.0		1778	221									
N/A	1	B-31	4.0		1607	50									
N/A	1	B-31	7.0		N/A	N/A									Wet
N/A	1	PS-10C	1.0		2005	448									
N/A	1	PS-10C	4.0		1982	425									
N/A	1	PS-10C	7.0		1892	335									
N/A	1	PS-14C	0.3		1897	340								<u> </u>	
N/A	1	PS-14C	4.5		1946	389									
N/A	1	PS-14C	7.5		2094	537			<u> </u>						J

Notes: 1. Release Limit = 3(bkgd cpm) = 3(1557 cpm) = 4671 cpm

^{2.} MDA = 1757 net cpm (200 cpm above background).

^{3.} Response factor is 350 cpm/pCi/gm of Cs137

^{4.} Outside of marinelli containers wiped with masselin - masselin counted - no activity above background detected.

													Date		7/15/2008
Purpose Survey		Soil Chara	acterization	Bore Sa	mples - M	arinelli Sc	reen Only						Log Number		08-051
Surv	eyed by:	Phyllis Morr	rison				•		Signature:				Reviewed By:		
	Instrument	Serial Number	Calibration Due	Probe	Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA (dpm)	Beta Bkgd (cpm)	Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd, CPM
1_1_	Lud 2221	211772	5/12/2009	Nai	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1699
2	Detector	206815	5/12/2009	Nal	1	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:															
10.10 Marks.			Sample Bo	ore Depth	Gamm	Screen	Remov	ble:Beta	Total Sta	tic Alpha	Tota	Static Beta	βy Dos	e Rate	
Smear #		Bore Location			Net	CCPM	Net	DPM*/	Gross	DPM //F	Gross*	DPM/100cm ²	/ Contact μR/hr	Gen. Area µR/hr	NOTES
N/A		B-1	0.5		1922	223	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	14TOOCIMASES	May MACO Marie 1881	A FIOQUAL CARR	S			4	N/A
N/A	1	B-1	4.5	1	2874	1175									
N/A	1	B-1	7.5		NA	NA									Wet
N/A	. 1	B-2	1.0		1853	154									
N/A	11	B-2	4.0		1710	11	<u> </u>							\\-	1
N/A	1	B-2	7.0		2085	386				<u> </u>					
N/A	1	B-3	1.0		1647	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>									
N/A	1	B-3	4.0		1659	<bkgd< td=""><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td></bkgd<>				<u> </u>					
N/A	1	B-3	7.0		NA	NA .									Wet
N/A	1	B-5	0.5		1870	171		<u> </u>					ļ. <u></u>		<u> </u>
N/A	1	B-5	4.5		1965	266									1
N/A	1	B-5	7.5		NA	NA		<u> </u>							Wet
N/A	1	B-6	1.0		1609	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td> </td><td><u> </u></td></bkgd<>							<u> </u>	 	<u> </u>
N/A	1	B-6	4.0		1469	<bkgd< td=""><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td> </td></bkgd<>					<u> </u>				
N/A	1	B-6	7.0		1631	<bkgd< td=""><td></td><td>ļ</td><td>ļ</td><td>ļ</td><td></td><td></td><td><u> </u></td><td> </td><td> </td></bkgd<>		ļ	ļ	ļ			<u> </u>	 	
N/A	1	B-7	0.5		1835	136		ļ	<u> </u>	ļ			<u> </u>	 	
N/A	1	B-7	4.5	\	1765	66								1	
N/A	1	B-7	7.5		1805	106							<u> </u>	4	

													Date		7/15/2008
Purpose Survey :		Soil Chara	acterization	Bore Sa	mples - M	larinelli Sc	reen Only						Log Number		08-051
Surv	eyed by:	Phyllis Morr	rison						Signature:	,			Reviewed By:		
19. g 20. 10. g 20. 20. g 20.	Instrument	Seria\ ™Number ↔	The state of the s		Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler. "MDA (dpm)		Beta Eff.	Beta Static MDA (dpm)	Beta Scaler	Gamma Bkgd. CRM
1	Lud 2221	211772	5/12/2009	Nal	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1699
2	Detector	206815	5/12/2009	Nal	1	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	NIA	N/A	N/A	N/A	N/A	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:															
1000	r (R.J.)		Sample Bo	re Depth	Gamm	Screen ()	Remova	ble Beta	Total Stat	io Alpha	Total	Static Beta	βγιΟοι	e Rate	i 13.5
Smann		Bore Location			Net	CCPM	Net CPM	DPMI/	Gross C	DPM ³ /	Gross	Static Beta	Contact µR/hr	Gen Area μR/hr/	NOTES
N/A	1	B-9	0.5	\	1806	107			of John Chills . Seeds	24 6 1 OOCH 19 Care	in Ot. Man	<i>D1.11.17.</i> 1000ELL		4	
N/A	1	B-9	4.5	1	1795	96									
N/A	1	B-9	7.5		1676	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>									
N/A	1	B-11	1.0		1856	157									
N/A	1	B-11	4.0		2502	803									
N/A	1	B-11	7.0		2533	834									<u> </u>
N/A	1	PS-01C	1.0	. \	1633	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>									
N/A	1	PS-01C	4.0		1607	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>.</u></td></bkgd<>									<u>.</u>
N/A	11	PS-01C	7.0		1760	61									ļ
N/A	1	PS-02C	0.5		1818	119									ļ
N/A	1	PS-02C	4.5		1833	134								<u> </u>	<u> </u>
N/A	1	PS-02C	7.5		1783	84									

Notes: 1. Release Limit = 3(bkgd cpm) = 3(1699 cpm) = 5097 cpm

^{2.} MDA = 1899 net cpm (200 cpm above background).

^{3.} Response factor is 350 cpm/pCi/gm of Cs137

^{4.} Outside of marinelli containers wiped with masselin - masselin counted - no activity above background detected.

^{5.} Background taken in air and repeated at least three times during the day.

													Date	7	/16/2008
Purpose	of														
Survey:		Soil Chara	ecterization	Bore Sa	nples - M	larinelli Sc	reen Only	<u> </u>					Log Number	<u> </u>	08-054
Surv	eyed by:	Phyllis Mor	rison						Signature:				Reviewed By:		
7.0	Instrument	Serial: Number	Calibration Due	Probe	Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA (dpm)		Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
1	Lud 2221	211772	5/12/2009	Nal	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1545
2	Detector	206815	5/12/2009	Nal	11	2x2	N/A	N/A	N/A	N/A	N/A	N/A	NIA	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A_	N/A	N/A_	N/A	· N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:															
			Sample B	ore Depth	Gamma	Screen -	Remov	able Beta	Total Sta	ticiAlpha 🖖	Total	Static Beta	βγDos	e Rate	
		Bore Location			Net		Net	DPM//	Gross#	/DPM(/)	Gross	DPM://100cm	Contact µR/hr	Gen Area µR/hr	NOTES
N/A	1	B-4	1.0	"Y Coord."	1808	263	CPM	100cm	CPM	per tooems	CFM	DP,MY/NTOCCH		4	N/A
N/A	1	B-4	4.0		2148	603									
N/A	1	B-4	7.0		NA	NA									Wet
N/A	1	B-8	0.5		1894	349									
N/A	1	B-8 ·	4.5		2044	499							<u> </u>		<u> </u>
N/A	1	B-8	7.5		NA	NA							ļ		Wet
N/A	1	B-10	0.5	\ .	1590	45					ļ	ļ	ļ		
N/A	1	B-10	4.5		2020	475				<u> </u>					
N/A	1	B-10	7.5		NA	NA	ļ						ļ	-	Wet
N/A	1_1_	B-12	1.0		1687	142							<u> </u>		
N/A	1	B-12	4.0		1749	204								 	
N/A	1	B-12	7.0		NA	NA							ļ		Wet
N/A	1	B-18	1.0		1712	167					<u> </u>				
N/A	1	B-18	4.0		1787	242							<u> </u>		
N/A	1	B-18	7.0		NA	NA				<u> </u>			 	_	Wet
N/A	1	B-19	0.5		1920	375							<u> </u>	 	
· N/A	1	B-19	4.5	<u> </u>	1898	353			<u> </u>			<u> </u>	1	1	
N/A	1	B-19	7.5		NA	NA		•			<u></u>	<u> </u>		<u> </u>	Wet

													Date		7/16/2008
Purpos Survey		Soil Char	acterization	Bore Sa	mples - M	larinelli Sc	reen Only						Log:Number		08-054
Sui	veyed by:	Phyllis Mor	rison						Signature:				Reviewed By:		
	Instrument	Serial Number	Calibration Due	Probe	Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA (dpm)	Beta Bkgd (cpm)	Beta Eff.		Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
1	Lud 2221	211772	5/12/2009	Nal	11	N/A	N/A	N/A	N/A	N/A	N/A	NIA	N/A	N/A	1545
2	Detector	206815	5/12/2009	Nal	1	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	. N/A	. N/A	N/A	N/A	N/A	N/A	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	. N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					-					
100			Sample Bo	ore Depth	Gamm	a Screen de	700 kRemove	ible Beta	Total Sta	tic Alpha	Total	Static Beta	β βγ Dos	e Rate	黄色法
Smear #	Inst.#	Bore Location	Feet	Y Coord.	Net CPM	CCPM	t Net	DPM(//): 100cm ²	(Gross)	GDPM(/) 100cm ²	Gross"	DPM*//100cm	Contact μR/hr	Gen Area µR/hr	NOTES
N/A	1	В-26	1.0	1	1669	124								4	
N/A	1	B-26	4.0		1711	166									
N/A	1	В-26	7.0		NA	NA									Wet
N/A	1	B-32	1.0		1673	128									
N/A	1	B-32	4.0	_\	1713	168									
N/A	1	B-32	8.0		1621	76									<u> </u>
N/A	1	B-33	0.5		1547	2	<u>.</u>							 	ļ
N/A	1	B-33	4.5		1961	416									ļ
N/A	11	B-33	7.5		NA	NA					·			<u> </u>	Wet
N/A	1	B-34	0.5		1761	216									
N/A	1	B-34	4.5		1979	434									ļ
N/A	1	B-34	7.5		1906	361		<u> </u>						ļ	ļ
N/A	1	PS-06C	0.5		2155	610						·			ļ
N/A	11	PS-06C	4.5		1962	417		<u> </u>						<u> </u>	<u> </u>
N/A	1	PS-06C	7.5		2130	585							ļ		
N/A	1	PS-11C	0.5	1	1884	339							1		<u> </u>
N/A	, 1	PS-11C	4.5		1968	423	<u> </u>			ļ	ļ	ļ			<u> </u>
N/A	1	PS-11C	7.5		NA	, NA			<u> </u>	<u> </u>		<u> </u>			Wet

													Date		7/16/2008
Purpose Survey :		Soil Char	acterization	Bore Sa	mples - M	larinelli Sc	reen Only						Log Number		08-054
Surv	eyed by:	Phyllis Mor	rison						 Signature:	ł			Reviewed By:		
e transfera	Instrument	Serial	Calibration Due	Probe	Count'	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA'(dpm)		Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
11	Lud 2221	211772	5/12/2009	Nal	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	1545
2	Detector	206815	5/12/2009	Nal	11	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:						ı										
			Sample Bo	re Depth	Gamm	a Screen	Remov	ble Beta	Total Sta	tic Alpha	Total	Static Beta	βγ. D с	se Rate		
		Bore Location	3.0 k		Net.		Net	DPM /	Gross	DPM*/	Gross		Contact µR/hr	Gen. A µR/1	rea ir	notes
Smear #	Inst. #	Bore Location	Feet	Y Coord	CPM	CCPM	CPM	100cm	CPM	100cm	CPM	DPM:/#100cm#	A STATE OF STATE OF	1		
N/A	1_	PS-23AC	1.0		1784	239								$\downarrow \downarrow \downarrow$		
N/A	1	PS-23AC	4.0		2026	481										
N/A	1	PS-23AC	7.0		NA	NA										Wet
N/A	1	PS-23BC	0.5		1908	363							<u> </u>			
N/A	1	PS-23BC	4.5		NA	NA										Wet
N/A	1	PS-23BC	7.5		NA	NA										Wet

Natasi	ł	GNILLHER	linait	n 9/bisad siina	1 & 3/15d# en#	ituan Atith min

^{2.} MDA = 1745 net cpm (200 cpm above background).

^{3.} Response factor is 350 cpm/pCi/gm of Cs137.

^{4.} Outside of marinelli containers wiped with masselin - masselin counted - no activity above background detected.

^{5.} Background taken in air and repeated at least three times during the day.

													Date		7/17/2008
Purpose Survey :		Soil Chara	acterization	Bore Sa	mples - N	larinelli So	creen Only						Log Number		08-058
Surv	eyed by:	Phyllis Mor	rison						Signature:				Reviewed By:		
	Instrument	Serial Number	Calibration Due	Probe	Count Time (Min)	Probe Area (cm²)	Alpha Bkgd (cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler MDA (dpm)	Beta Bkgd (cpm)	Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
1	Lud 2221	211772	5/12/2009	Nal	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A ·	N/A	1403
2	Detector	206815	5/12/2009	Nal	11	2x2	N/A	N/A	N/A	N/A	N/A	N/A	NIA	N/A	NIA
3_	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40_
4	N/A	N/A	N/A	'N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks															
			Sample Bo	re Depth	Gamm	a Screen	Remov	ble Beta	Total Sta	tic Alpha	Total	Static Beta	βγ·Dos	e Rate	
Smear #	Inst.#	Bore Location	Feet	Y Coord?	Net CPM	ССРМ	Net CPM	.DPM// 100cm ²	Gross ^{vy} CPM	DPM//	Gross) CPM	DPM / 100cm ²	Contact uR/hr	Gen Area μR/hr	NOTES
N/A		B-21	1.0		1699	296								4	N/A
N/A	1	B-21	4.0		1612	209								ļ ļ .	
N/A	1	B-22	1.0		1483	80									
N/A	1	B-22	4.0		1469	66					·				1
N/A	1	B-23	1.0		1492	89									
N/A	1	B-23	4.0		1362	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>$\perp \perp \perp$</td></bkgd<>								-	$\perp \perp \perp$
N/A	11	B-24	0.5		1775	372								<u> </u>	
N/A	1	B-24	4.5		1785	382								<u> </u>	\bot
N/A	1	B-25	1.0		1293	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></bkgd<>									1
N/A	1	B-25	4.0		1446	43	<u> </u>	<u> </u>							1
N/A	1	B-27	1.0		1515	112								<u> </u>	
N/A	1	B-27	4.0		1324	<bkgd< td=""><td><u></u></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td> </td><td>4-4-4</td></bkgd<>	<u></u>						<u> </u>	 	4-4-4
N/A	1_1_	B-28 .	0.5		1716	313								 	4-4-1
N/A	11	B-28	4.5		1768	363									\bot
N/A	1	B-29	0.5		1792	. 389							ļ	1	
N/A	1	B-29	4.5		1744	341							<u> </u>		
N/A	1	PS-20C	0.3		1804	401									
N/A	1	PS-20C	4.5		1780	377				<u> </u>					

		· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·					Date		7/17/2008
Purpose Survey		Soil Char	acterization	Bore Sa	mples - N	larinelli So	creen Only						Log Number		08-058
Sun	veyed by:	Phyllis Mor	rison						Signature:				Reviewed By:		
	Instrument	The state of the s	Calibration Due	Probe	Count Time (Min)	Probe Area, (cm²)	Alpha Bkgd ((cpm)	Alpha Eff.	Alpha Static MDA (dpm)	Alpha Scaler. MDA (dpm)	Beta Bkgd (cpm)	Beta Eff.	Beta Static MDA (dpm)	Beta Scaler MDA (dpm)	Gamma Bkgd. CPM
1	Lud 2221	211772	5/12/2009	Nal	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	1403
2	Detector	206815	5/12/2009	Nal	11	2x2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Model 12	78697	5/12/2009	GM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NIA	40
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NIA	NIA	N/A	N/A	N/A
5	. N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NIA	N/A	N/A	N/A	N/A	N/A	N/A

										•					
Remarks:			4.												
To Assert Sel	1	College against the arms of the College of the Coll	Sample B	ore Depth	Gamm	a Screen	Remov	ble Beta	Total Sta	ic Alpha 💮	Tota	Static Beta	βγ. Do	se:Rate	
		Party is the Shipping	desperation.	BEST DESCRIPTION		Total Bullion		Philipping (1812)		24 m 7 % 7 %		EXECUTE:	出的现代代表证		
	- 1 Page			7 S.	4.3576553	2 11 1 10 10	Physical Com-	30 CX 10 CK	CONTROL OF THE	STATE OF STREET	10 Table 1 Table 1		Contact	Gen. Area	NOTES
	1			SPECIAL SECTION	1. Net		Net -	DPM /	Gross,	DPM//	Gross	State of the state of	µR/hr≁	μR/hr	2.5
Smear #	Inst.	Bore Location	Feet	Y Coord.	CPM	ССРМ	CPM	100cm	CPM	100cm ²	CPMC	DPM / 100cm	Page Anglish	3.0	1
1											1	Ī .	/	1 1.	1. 1
N/A	1	PS-21,C	0.3	1	1866	463	<u> </u>			<u> </u>	<u> </u>		 	¥	
						100					1	1		· · · · · · · · · · · · · · · · · · ·	NA
N/A	1	PS-21C	4.5		1836	433	1	<u> </u>	<u> </u>				±		لــــــــــــــــــــــــــــــــــــــ

Notes:	 Release Limit = 3(bkgd cpm) = 3(1403 cpm) = 4209 cpm.

^{2.} MDA = 1603 net cpm (200 cpm above background).

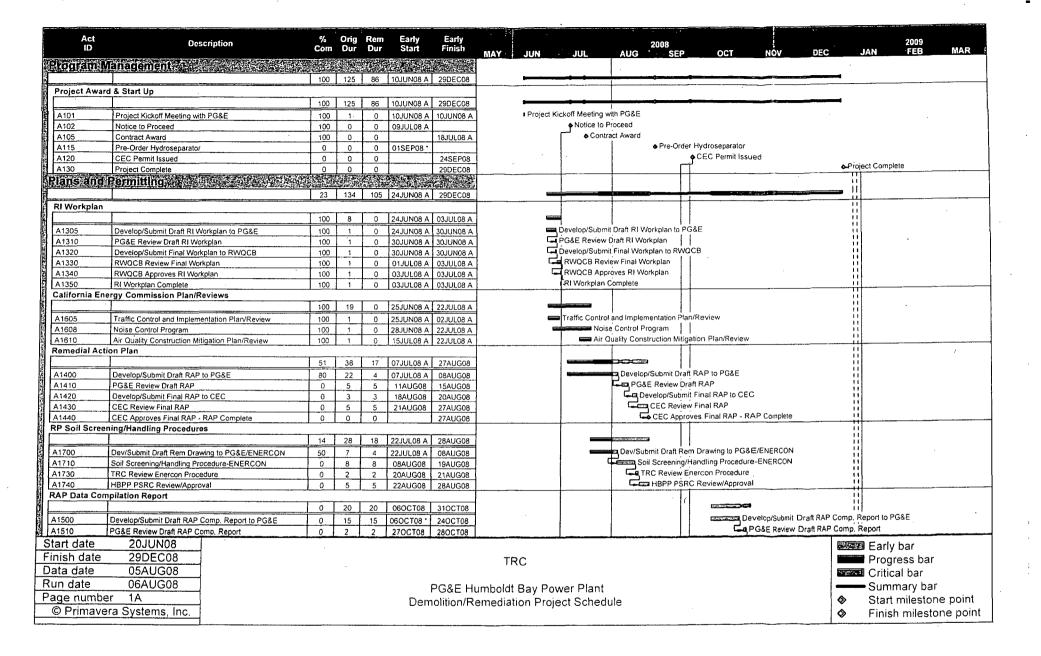
^{3.} Response factor is 350 cpm/pCl/gm of Cs137.

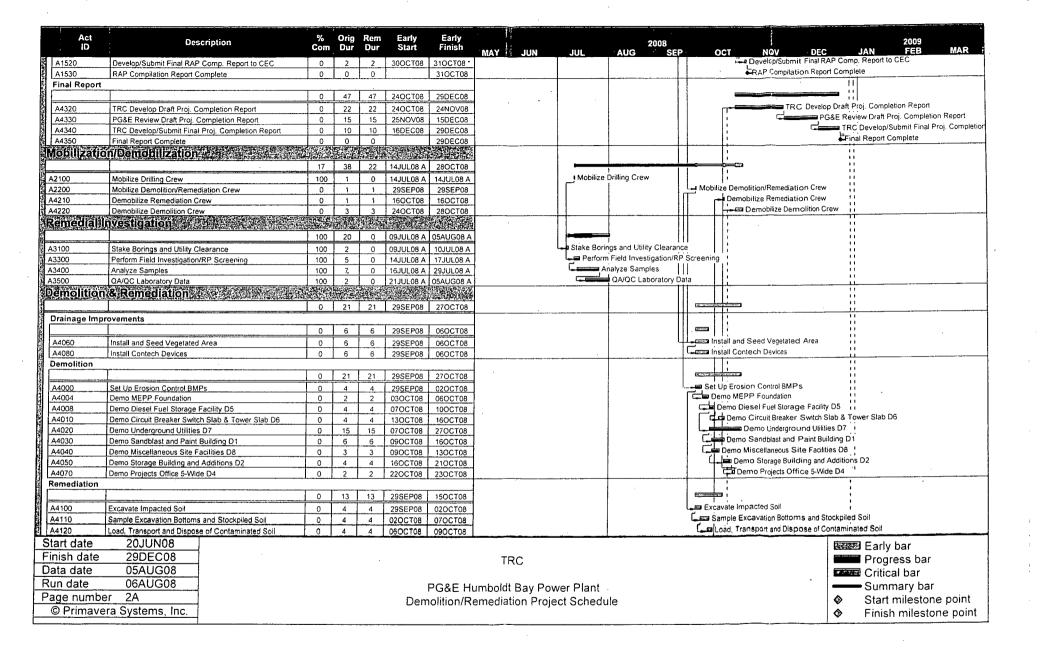
^{4.} Outside of marinelli containers wiped with masselin - masselin counted - no activity above background detected.

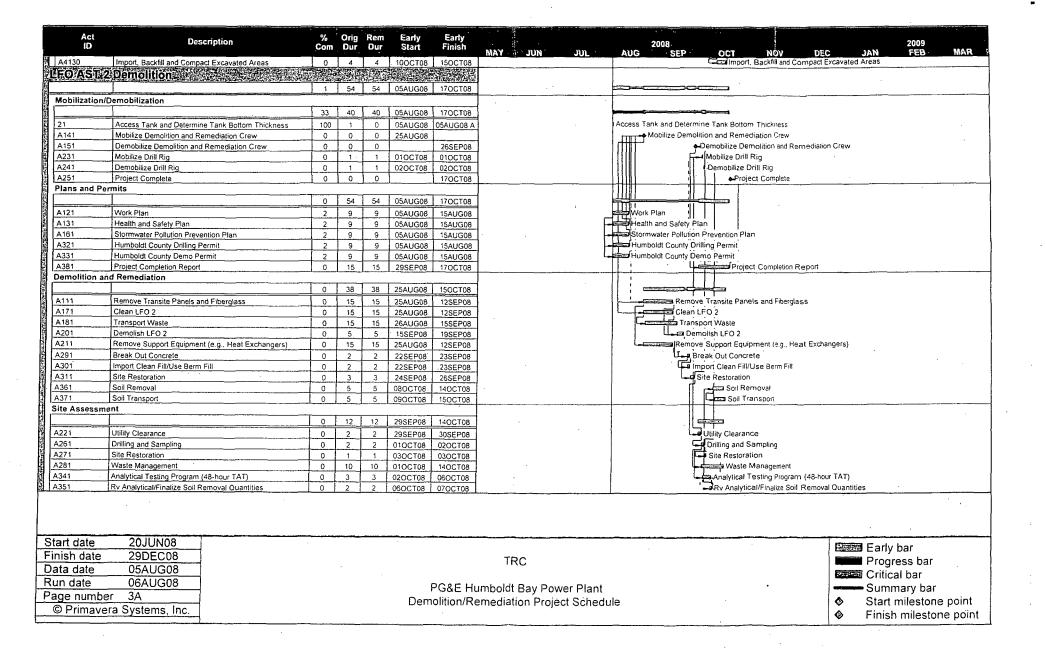
^{5.} Background taken in air and repeated at least three times during the day.

LAB SHEETS

DEMOLITION AND REMEDIATION SCHEDULE









a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

July 25, 2008

Mr. Moises Carvalho TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California 94105

Re: Humboldt Bay NPP Project 161072, Task 2400

Work Order: 212047

Dear Mr. Carvalho:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 16, 2008. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stan

Erin Stanley

Project Manager

Purchase Order: 161072

Enclosures

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

TRCS002 TRC Solutions

Client SDG: 212047 GEL Work Order: 212047

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Erim Staules

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-16-1.0 Gamma

212047001

Matrix:

Soil

Collect Date:

14-JUL-08 10:00

Receive Date:

16-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metho
D 10 0									

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0238

+/-0.0306

0.0467 0.100

pCi/g

Project:

Client ID:

млн 07/17/08 1425 774961 1

Report Date: July 25, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1748	774803	_

The following Analytical Methods were performed

	rary treat fractions were perior	ned ·
Method	Description	Analyst Comments
		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gei.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix:

212047002 Soil

Collect Date:

14-JUL-08 10:40

B-16-4.0 Gamma

Receive Date:

16-JUL-08

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Ana	lysis										
Gammaspec, Gamma, Se	olid "Dry Weight	Corrected"				•					
Cesium-137	U	0.0208	+/-0.031	0.0572	0.100	pCi/g	N	М ЈН1 07/18/08	0626 7	74961	1
The following Prep M	ethods were perf	ormed									(
Method	Description				Analyst	Date	Time	Prep Batch)		
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021	-	CXC1	07/16/08	1748	774803		,	

The	following	Analytica	Methods	were	performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

·2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-16-7.0 Gamma

Sample ID: Matrix:

212047003 Soil

Collect Date:

Receive Date:

14-JUL-08 11:10 16-JUL-08

Collector: Qualifier

Client

Result Uncertainty RLUnits DF AnalystDate Time Batch Method DL

Project: Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

0.00401

+/-0.0213

0.0367

0.100 pCi/g МЛН1 07/18/08 0626 774961

Report Date: July 25, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

Method Prep Batch Description Analyst Date Time Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1748 774803

The following Analytical Methods were performed

Method Description - Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project:

Analyst Comments

Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Method

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

PS-10C-1.0 Gamma

212047004

Matrix:

Soil

Collect Date:

14-JUL-08 11:30

Receive Date:

Description

EML HASL 300, 4.5.2.3

16-JUL-08

Collector:

Client

			CHULL		`					
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch	Method
Rad Gamma Spec A	nalysis									
Gammaspec, Gamma	, Solid "Dry Weight	Corrected"								
Cesium-137	U ,	0.00963	+/-0.0333	0.0586	0.100	pCi/g	M	IJH1 07/18/08	0627 774961	1
The following Prep	Methods were perfe	ormed	٠		•					_ (,
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/16/08	1748	774803		
The following Anal	ytical Methods were	performed	ı							

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Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

1.

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-10C-4.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 25, 2008

212047005

Soil

Matrix: Collect Date:

14-JUL-08 11:55

Receive Date:

16-JUL-08

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch N	Method
Rad Gamma Spec	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight (Corrected"			_					٠	
Cesium-137	U	-0.0209	+/-0.035	0.0552	0.100	pCi/g		МЛН1 07/18/08	0831	774961	1
The following Prep	n Methods were perfo	rmed				w -	, ,				
- · Method	Description				Analyst	Date	Time	Prep Batch		·	
Dry Soil Prep	Dry Soil Prep	GL-RAD-A	A-021		CXC1	07/16/08	1748	774803			
The following Ana	lytical Methods were	performed			-						
Method	Description				A	nalyst Comm	ents				

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-10C-7.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 25, 2008

212047006

Soil

Result

Matrix: Collect Date: Receive Date:

14-JUL-08 12:25

Collector:

16-JUL-08 Client

Qualifier

							
Uncertainty	DI.	RL	Units	DF	AnalystDate	Time	Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

. -0.00809 U

+/-0.0302 0.0419

0.100

pCi/g

МЛН1 07/18/08 0832 774961

The following Prep Methods were performed

Time Method Description Date Prep Batch Analyst 07/16/08 1748 774803 Dry Soil Prep GL-RAD-A-021 CXC1 Dry Soil Prep

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-30-1.0 Gamma 212047007

Soil

Matrix:

Collect Date:

14-JUL-08 13:45

Receive Date:

16-JUL-08

Collector:

Client

Pårameter

Qualifier Result

Uncertainty

RL

Units

Project: Client ID:

DF AnalystDate

TRCS00200 TRCS002

Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.00886

+/-0.0307

0.0547

DL

0.100

pCi/g

МЈН1 07/18/08 0833 774961

Report Date: July 25, 2008

The following Prep Methods were performed

Method Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXCI

Date.

Time Prep Batch

The following Analytical Methods were performed

Description

07/16/08

1748

774803

Description

~ Method

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-30-4.0 Gamma 212047008

Soil

Matrix:

Qualifier

Collect Date: Receive Date:

14-JUL-08 14:05

Collector:

16-JUL-08

Client Result Uncertainty

Parameter		
Rad Gamma	Spec	Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0315

+/-0.0503

0.0886

0.100

RL

pCi/g

Units

Project: Client ID:

DF

MJH1 07/18/08 0910 774961

Time Batch Method

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method Description Time Prep Batch Analyst Date Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1748 774803

DL

The following Analytical Methods were performed

Method Description **Analyst Comments** EML HASL 300, 4.5.2.3

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

Soil

B-30-7:0 Gamma 212047009

Matrix:

Collect Date: Receive Date: 14-ЛИС-08 14:20

16-JUL-08

~	1:		
ι.	u	en	1

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis							•			
Gammaspec, Gamma	a, Solid "Dry Weight	Corrected"				,		* •			
Çesium-137	υ	-0.017	+/-0.0298	0.0483	0.100	pCi/ ġ		MJH1 07/18/08	0910 7	74961	1 .
The following Prep	Methods were perf	ormed					•				
. Method	Description		•		Analyst	Date	Time	Prep Batch			
-Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXCI	07/16/08	1748	774803		-	
The following Anal	utical Mathoda was	naufoumod				•					

The following A	Analytical	Methods	were	performed

The following	Analytical Methods were periorited		
Method	Description	Analyst Comments	**
1:	EML HASL 300, 4.5.2.3		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-31-1.0 Gamma

212047010

Soil

Result Uncertainty

Matrix: Collect Date:

Receive Date:

14-JUL-08 14:45

Client

Collector: Qualifier 16-JUL-08

DF

Project:

Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

U -0.00836 +/-0.022

0.0355

DL

pCi/g

Units

RL

0.100

МЛН1 07/18/08 0911 774961

Time Batch Method

Report Date: July 25, 2008

TRCS00200 TRCS002

AnalystDate

The following Prep Methods were performed

Method Description Time Prep Batch Analyst Date Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1748 774803

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-31-4.0 Gamma

212047011

Soil

Matrix: Collect Date:

Qualifier

Receive Date:

14-JUL-08 15:00 16-JUL-08

Collector:

Client Result Uncertainty

Parameter	
Rad Gamma	Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0241

+/-0.0522

0.0922~

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

MJH1 07/18/08 0912 774961

Time Batch Method

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

- 1010 1111	Machine Section in Co.		·			
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1748	774803	

DL

The following Analytical Methods were performed

		 mear meethods were per	Tot med	
Method	ì	Description	Analyst Comments	,

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-15-1.0 Gamma 212047012

Matrix:

Collect Date:

Soil 14-JUL-08 16:10

Receive Date:

Qualifier

16-JUL-08

Collector:

Client Result Uncertainty

Parameter

Dry Soil Prep GL-RAD-A-021

DL

RL

0.100

AnalystDate

TRCS00200

TRCS002

Report Date: July 25, 2008

Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.0244

+/-0.0326

0.0604

pCi/g

Units

Project:

Client ID:

DF

МЛН1 07/18/08 1045 774961

The following Prep Methods were performed

Method Dry Soil Prep Description

Analyst

CXC1

Date 07/16/08 Time 1748

Prep Batch 774803

The following Analytical Methods were performed

Method

Description

Analyst Comments

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Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-15-4.0 Gamma

Sample ID: Matrix:

212047013 Soil

Collect Date: Receive Date: 14-JUL-08 16:15 16-JUL-08

Collector:

Client

Parameter Qualifier Result Uncertainty DL RLUnits DF AnalystDate Time Batch Method

Project: Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0128

+/-0.0271

0.0468 0.100 pCi/g

MJH1 07/18/08 1045 774961

Report Date: July 25, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	 CXC1	07/16/08	1748	774803	•

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

1

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix:

EML HASL 300, 4.5.2.3

B-20-0.5 Gamma

212047014 Soil

Collect Date:

14-ЛИЦ-08 10:00

Receive Date:

16-JUL-08

Collector:

Client

			Chent							·
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batc	h Method
Rad Gamma Spec An	nalysis									
Gammaspec; Gamma,	Solid "Dry Weight C	orrected"								
Cesium-137	U	0.0207	+/-0.0291	0.054	0.100	pCi/g	:	МЈН1 07/18/08	1046 774961	1
The following Prep I	Methods were perfor	med								(
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep (GL-RAD-	A-021		CXC1	07/16/08	1748	774803		
The following Analy	tical Methods were p	erformed	•							
Method	Description					Analyst Comm	ents			

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-20-4.5 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 25, 2008

Matrix:

212047015

Soil

Collect Date:

14-JUL-08 10:25

Receive Date:

16-JUL-08

Collector:

Client

: Parameter Qualifier Result Uncertainty RLDF AnalystDate Time Batch Method DL Units

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.0114 U

+/-0.0296

0.0485

0.100

pCi/g

MJH1 07/18/08 1228 774961 . 1

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1748 774803

The following Analytical Methods were performed

Method **Analyst Comments** Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-20-7.5 Gamma 212047016

Soil

Matrix: Collect Date:

Qualifier

14-JUL-08 10:48 16-JUL-08

Receive Date: Collector:

Client Result Uncertainty

Parameter

Rad Gamma Spec Analysis Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

<u>1</u>

U -0.00987

+/-0.0243

0.0399

DL

0.100

RL

DF AnalystDate

TRCS00200

TRCS002

Time Batch Method

MJH1 07/18/08 1228 774961

Report Date: July 25, 2008

The following Prep Methods were performed Method

Description Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

Date 07/16/08

pCi/g

Units

Project:

Client ID:

Time Prep Batch

1748

774803

The following Analytical Methods were performed

Description Method

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-14C-0.3 Gamma 212047017

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 25, 2008

Matrix:

Soil

Collect Date: Receive Date:

14-JUL-08 11:30 16-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch	Method
Rad Gamma Spec Analysis										
Gammaspec, Gamma, Solid	"Dry Weight C	orrected"								
Cesium-137	. U	0.0338	+/-0.0374	0.069	0.100	pCi/g		МЛН1 07/18/08	1229 774961	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1 :	07/16/08	1748	774803

The following A	nalytical Methods were performed	·
Method	Description	Analyst Comments
		·
	70.07	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

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Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

PS-14C-4.5 Gamma

212047018

Soil

Matrix: Collect Date:

14-JUL-08 11:57 Receive Date:

16-JUL-08

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight C	Corrected"									
Cesium-137	ָ ָ ע ַ	0.00679	+/-0.037	0.064	0.100	pCi/g	N	илні 07/18/08	1229 73	74961 :	1
The following Prep	Methods were perfo	rmed									(_
Method	Description				Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/16/08	1748	774803	,		
The fellowing Aug	L.45 1.74 41 3										
The following Anal	lytical Methods were	periormed									

Method Description **Analyst Comments**

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Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

PS-14C-7.5 Gamma

TRCS00200 TRCS002 Project:

212047019

Client ID:

Report Date: July 25, 2008

Matrix:

Soil

Collect Date:

14-JUL-08 12:16

Receive Date: Collector:

16-JUL-08 Client

Parameter	Qualifier	Result Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metho	od
		•					•		

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

-0.00111

+/-0.023

0.0384

0.100 pCi/g МЛН1 07/18/08 1230 774961

The following Prep	* /	·				
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1748	774803	

The following P	The following Analytical Methods were performed					
Method	Description	Analyst Comments				

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

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San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-13-0.5 Gamma 212047020

Soil

Matrix: Collect Date:

Qualifier

Receive Date:

14-JUL-08 14:05 16-JUL-08

Collector:

Client

Parameter

Result Uncertainty RLDL Units DF AnalystDate Time Batch Method

Project: Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0187 +/-0.0372

0.0674

pCi/g

МЛН1 07/18/08 1231 774961

The following Prep Methods were performed

Method Description

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

0.100

Date 07/16/08 Time Prep Batch

1748

Report Date: July 25, 2008

TRCS00200 TRCS002

774803

The following Analytical Methods were performed

Method

Dry Soil Prep

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-13-4.5 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 25, 2008

212047021

Matrix:

Soil

Collect Date:

14-JUL-08 14:20

Receive Date:

16-JUL-08

Collector:

Client

-										
Parameter	•	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0174

+/-0.0254

0.0399

0.100

pCi/g

MJH1 07/18/08 1607 774962 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	 CXC1	07/16/08	1757	774806

The following A	mary tical methods were perior med	
Method	Description	Analyst Comments
1	FMI HASI 300 4523	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-13-7.5 Gamma 212047022

Soil

Matrix: Collect Date:

Result

Receive Date:

Qualifier

14-JUL-08 14:23 16-JUL-08

Uncertainty

Collector:

Client

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected" Cesium-137

U -0.0171 +/-0.0292

0.0472

DL

0.100 pCi/g

RL

AnalystDate

TRCS00200

TRCS002

Report Date: July 25, 2008

Time Batch Method

МЈН1 07/19/08 0853 774962

The following Prep Methods were performed

Method Description

Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

07/16/08

Date

Units

Project:

Client ID:

DF

Time Prep Batch 1757

774806

The following Analytical Methods were performed

Method

1

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-17-0.5 Gamma

212047023

Matrix:

Collect Date:

Soil

14-JUL-08 14:50

Receive Date: Collector:

Qualifier

16-JUL-08 Client

Uncertainty

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.0169

+/-0.0294

0.0527

DL

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

Time

1757

Prep Batch

774806

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

MJH1 07/19/08 0854 774962

Time Batch Method

The following Prep Methods were performed

Method Description Analyst Date Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08

Result

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix: Collect Date:

EML HASL 300, 4.5.2.3

B-17-4.5 Gamma 212047024

Soil

14-JUL-08 15:10

Receive Date:

16-JUL-08

Collector:

Client

											
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Ana	alysis										
Gammaspec, Gamma, S	Solid "Dry Weight C	orrected"						•			
Cesium-137	. บ -	-0.0105	+/-0.0333	0.0544	0.100	pCi/g	1	илні 07/19/08	0854 7	74962	1
The following Prep M	fethods were perfoi	rmed	•								(
Method	Description				Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep (GL-RAD-	A-021		CXC1	07/16/08	1757	774806		,	
The following Analyt	ical Methods were j	performed		•		_		_	_		
Method	Description				A	Analyst Comm	ents				

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-17-7.5 Gamma

212047025

Sample ID: Matrix:

Soil

Collect Date:

14-JUL-08 15:25

Receive Date:

16-JUL-08

Uncertainty

Collector:

Client

Qualifier	Result

Rad Gamma Spec Analysis

Cesium-137

Gammaspec, Gamma, Solid "Dry Weight Corrected"

U 0.0274

+/-0.0265

0.0494

0.100

RL

pCi/g

Units

Project:

Client ID:

MJH1 07/19/08 0855 774962 1 .

·Time Batch Method

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

The following Pren Methods were performed

The jonowing TTE	p Methous were periormen					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/1 6/08	1757	774806	

DL

The following Analytical Methods were performed

Method	Description	Analyst Comments

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Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-14-0.5 Gamma

212047026

Matrix:

Collect Date:

Soil

14-JUL-08 15:55

Receive Date: Collector:

16-JUL-08

Client

Parameter	Qualifier	Result Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method
Pad Camma Spac Analysis								

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.0164U

+/-0.0236

0.0371

0.100

pCi/g

Project: Client ID:

МЈН1 07/19/08 0855 774962

Report Date: July 25, 2008

TRCS00200 TRCS002

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1757	774806	

The following Analytical Methods were performed

Method	Description	,	Analyst Comments
1	EMI HASI 300 4523		

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Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-7-0.5 Gamma 212047027

Matrix: Collect Date: Soil

15-JUL-08 09:20

Receive Date:

16-JUL-08

Collector:

Client

Parameter	Qualifier	Result Unc	ertainty DL	RL	Units	DF	AnalystDate	Time	Batch Method
Pod Comma Span Apolysia								,	

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

-0.00961

+/-0.0205

0.0325

0.100

pCi/g

Project: Client ID:

МЈН1 07/19/08 0856 774962

Report Date: July 25, 2008

TRCS00200 TRCS002

The following Pi	rep Methods were performed	<u> </u>				
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD	D-A-021 CXC1	07/16/08	1757	774806	

The following Al	nalytical Methods were performed	
Method	Description	Analyst Comments
. 1	EML HASL 300, 4.5.2.3	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-7-4.5 Gamma

212047028

Soil

Matrix: Collect Date: 15-JUL-08 09:40

Receive Date: Collector:

16-JUL-08

Client Result Uncertainty

Parameter Qualifier

+/-0.0394

0.0667

DL

RL

Units

Project: Client ID:

DF

AnalystDate

Report Date: July 25, 2008

TRCS00200

TRCS002

Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.00887

0.100

pCi/g

МЈН1 07/19/08 0856 774962

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1757 774806

The following Analytical Methods were performed

Method **Analyst Comments** Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-7-7.5 Gamma 212047029

Soil

Result Uncertainty

Matrix:

Collect Date:

Qualifier

15-JUL-08 10:00

Receive Date: Collector:

16-JUL-08

Client

Parameter.		
Rad Gamma	Spec	Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.00175

+/-0.0443

0.0709

DL

0.100

RL

AnalystDate

TRCS00200

TRCS002

Time Batch. Metho

The following Prep Methods were performed Method

Description

Dry Soil Prep Dry Soil Prep GL-RAD-A-021 Analyst CXCI

Date 07/16/08

Units

pCi/g

Prep Batch

774806

МЛН 107/19/08 0857 774962

Report Date: July 25, 2008

The following Analytical Methods were performed

Method

Description

Analyst Comments

Project:

Client ID:

DF

Time

1757

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

Matrix:

Collect Date:

Receive Date: Collector:

Client

Soil 15-JUL-08 08:20

16-JUL-08

212047030

Parameter

Qualifier

Result Uncertainty

+/-0.029

PS-01C-1.0 Gamma

RL

Units

Project: Client ID:

DF AnalystDate Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.00791

0.0485

DL

0.100

pCi/g

MJH1 07/19/08 0857 774962

The following Prep Methods were performed

Method

Description

Analyst

Date

Time Prep Batch

Dry Soil Prep Dry Soil Prep GL-RAD-A-021

CXC1

07/16/08

1757

Report Date: July 25, 2008

TRCS00200 TRCS002

774806

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-14-4.5 Gamma

Project: Client ID: TRCS00200

TRCS002

Report Date: July 25, 2008

Sample ID: Matrix:

212047031

Soil

14-JUL-08 16:05

16-JUL-08

Collect Date: Receive Date: Collector:

U

Client

					· · · · · · · · · · · · · · · · · · ·	
Parameter	Qualifier	Result Uncertainty	Dr.	RL Units	DF AnalystDate	Time Batch Method
2 1 2						

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.00831+/--0.0166 0.0273

0.100 pCi/g MJH1 07/19/08 0858 774962

The following Prep Methods were performed

	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	·CXC1	07/16/08	1757	774806	

The following Analytical Methods were performed

Method,	Description	Analyst Comments	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID: Matrix:

B-14-7.5 Gamma 212047032

Soil

Collect Date: 14-JUL-08 16:13

Receive Date: Collector:

16-JUL-08

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time B	Satch Method
Rad Gamma Spec Analysis										

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0264 +/-0.0233

0.0356

0.100

pCi/g

МЛН1 07/19/08 0858 774962

TRCS00200 TRCS002

Project: Client ID:

Report Date: July 25, 2008

I ne lollowing Pr	ep Methods were performed					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1757	774806	

The longwing A	Analytical Methods were performed		
Method	Description	Analyst Comments	
1	EMI. HASI, 300, 4523		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

212047033

Soil

Matrix:

Collect Date:

15-JUL-08 08:43 16-JUL-08

B-9-0.5 Gamma

Receive Date:

Qualifier

Collector:

Client Result Uncertainty

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.000848U

+/~0.0219

0.038

DL

pCi/g

Units

Project: Client ID:

MJH1 07/19/08 0859 774962

Time Batch Metho

The following Prep Methods were performed

Method Description

Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

RL

0.100

Date

Time Prep Batch

774806

1757

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

The following Analytical Methods were performed Method

Description

Analyst Comments

07/16/08

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-9-4.5 Gamma 212047034

Matrix: Soil

Collect Date: Receive Date: 15-JUL-08 08:55

Collector:

Qualifier

16-JUL-08

Client

Result Uncertainty

Parameter		-
Rad Gamma	Spec	Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0226

+/-0.0248

0.0444

DL

pCi/g

Units

RL

0.100

MJH1 07/19/08 0859 774962

Time Batch Method

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

Project:

Client ID:

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchDry Soil PrepDry Soil Prep GL-RAD-A-021CXC107/16/081757774806

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-9-7.5 Gamma 212047035

Matrix:

Collect Date:

Soil 15-JUL-08 09:10

Receive Date:

16-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Methor

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0176 +/-0.038

0.0595

0.100

pCi/g

Project:

Client ID:

MJH1 07/19/08 0901 774962

Report Date: July 25, 2008

TRCS00200

TRCS002

The following Prop Methods were performed

The following Frequency	Niethous were performed					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1757	774806	

The following Analytical Methods were performed

Method	Description	Analyst Comments	
1	ENG 11401 200 4522		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

PS-01C-4.0 Gamma

212047036

Soil

Matrix: Collect Date:

Qualifier

15-JUL-08 08:40 16-JUL-08

Receive Date: Collector:

Client Result Uncertainty

Parameter

Rad Gamma Spec Analysis Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137.

U 0.0022 +/-0.0308

0.0533

DL

0.100 pCi/g

Units

RL

Project:

Client ID:

DF

МЛН1 07/19/08 1136 774962

Time Batch Method

Report Date: July 25, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method Description Time Prep Batch Analyst Date Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1757 774806

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

PS-01C-7.0 Gamma

212047037

Matrix:

Soil 15-JUL-08 09:15

Collect Date: Receive Date:

Qualifier

16-JUL-08

Collector:

Client Result Uncertainty

Parameter	

Rad Gamma Spec Analysis

Cesium-137

Dry Soil Prep

Gammaspec, Gamma, Solid "Dry Weight Corrected" U 0.00852

+/-0.0287

0.0503

DL

0.100 pCi/g

RL

МЈН1 07/19/08 1136 774962

Report Date: July 25, 2008

TRCS00200

AnalystDate

774806

TRCS002

The following Prep Methods were performed

Method Description

Dry Soil Prep GL-RAD-A-021

Analyst CXC1 Date 07/16/08

Units

Project:

Client ID:

DF

Time Prep Batch 1757

Time Batch Method

The following Analytical Methods were performed Method **Analyst Comments** Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 25, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-3-1.0 Gamma 212047038

Matrix:

Soil

Collect Date: Receive Date: 15-JUL-08 09:35

Collector:

16-JUL-08

Client

		Chem								<u>:</u>
Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time I	Batch	Method
nalysis	·····							-		
Solid "Dry Weight C	Corrected"							٠,		
U -(0.00295	+/-0.0308	0.0523	0.100	pCi/g		MJH1 07/19/08	1137 774	4962	1
Methods were perfo	rmed			•			•			(
Description				Analyst	Date	Time	Prep Batch		,-	
Dry Soil Prep	GL-RAD-	A-021		CXC1	07/16/08	1757	774806			
				•						•
	Qualifier nalysis Solid "Dry Weight C U -(Methods were perfor Description Dry Soil Prep	Qualifier Result nalysis Solid "Dry Weight Corrected" U -0.00295 Methods were performed Description	Qualifier Result Uncertainty nalysis Solid "Dry Weight Corrected" U -0.00295 +/-0.0308 Methods were performed Description Dry Soil Prep GL-RAD-A-021	Qualifier Result Uncertainty DL nalysis Solid "Dry Weight Corrected" U -0.00295 +/-0.0308 0.0523 Methods were performed Description Dry Soil Prep GL-RAD-A-021	Qualifier Result Uncertainty DL RL malysis Solid "Dry Weight Corrected" U -0.00295 +/-0.0308 0.0523 0.100 Methods were performed Description Analyst Dry Soil Prep GL-RAD-A-021 CXC1	Qualifier Result Uncertainty DL RL Units nalysis Solid "Dry Weight Corrected" U -0.00295 +/-0.0308 0.0523 0.100 pCi/g Methods were performed Description Analyst Date Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08	Qualifier Result Uncertainty DL RL Units DF nalysis Solid "Dry Weight Corrected" U -0.00295 +/-0.0308 0.0523 0.100 pCi/g Methods were performed Description Analyst Date Time Dry Soil Prep GL-RAD-A-021 CXC1 07/16/08 1757	Qualifier Result Uncertainty DL RL Units DF AnalystDate	Qualifier Result Uncertainty DL RL Units DF AnalystDate Time Inalysis	Qualifier Result Uncertainty DL RL Units DF AnalystDate Time Batch

The following Analytical Methods were performed

Method Description **Analyst Comments**

1

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-3-4.0 Gamma

212047039

Soil

Matrix: Collect Date:

15-JUL-08 09:50 16-JUL-08.

Receive Date: Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis								•			-

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.0102 U

+/-0.0283

0.0471

0.100

pCi/g

Project:

Client ID:

MJHI 07/19/08 1137 774962

Report Date: July 25, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/16/08	1757	774806	

The following Analytical Methods were performed

		<u></u>	
		A	-
Met	hod Description	Analyst Comments	
11100	nod Description	The state of the s	
	•	·	•
			
•	ENGLY THE TOTAL	10.4603	

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 25, 2008

Page 1 of 2

55 2nd Street, Suite 575 San Francisco, California

Contact:

Mr. Moises Carvalho

TRC Solutions, Inc.

Workorder:

212047

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range A	nlst	Date Time
Rad Gamma Spec Batch 774	1961												
QC1201623294 Cesium-137		DUP		ប	0.0238		0.0747 +/-0.0362	pCi/g	103 *		(0% - 100%) N	IHLN	07/18/08 12:48
QC1201623295 Americium-241	LCS		15.9	,			13.0 +/-1.10	pCi/g		82	(75%-125%)		07/23/08 06:11
Cesium-137			6.02				5.78 +/-0.500	pCi/g		96	(75%-125%)		* .
Cobalt-60			7.86				7.96 +/-0.655	pCi/g		101	(75%-125%)		
QC1201623293 Cesium-137	MB					U ·	-0.00669 +/-0.0206	pCi/g			•	ı	07/18/08 12:47
Batch 774	1962												
QC1201623297 Cesium-137 QC1201623298	212047021 LCS	DUP		U .	-0.0174 +/-0.0254	. U	-0.0161 +/-0.0199	pCi/g	. 8		N/A N	ијн 1	07/19/08 11:39
Americium-241	LCS		15.9				13.5 +/-1.14	pCi/g		85	(75%-125%)		07/19/08 11:39
Cesium-137			6.02				6.24 +/-0.480	pCi/g		104	(75%-125%)		
Cobalt-60			7.86	•			8.03 +/-0.600	pCi/g		102	(75%-125%)		,
QC1201623296 Cesium-137	МВ					U	-0.00263 +/-0.012	pCi/g		. *			07/19/08 11:38

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C . Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 212047 Page 2 of 2 NOM Sample Qual Units RPD% REC% Range Date Parmname QC Anlst Time Value is estimated M if above MDC and less than LLD Μ N/A RPD or %Recovery limits do not apply. Analyte concentration is not detected above the detection limit ND NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier Sample results are rejected U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD. UI Gamma Spectroscopy--Uncertain identification Х Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier Y QC Samples were not spiked with this compound RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

Preparation or preservation holding time was exceeded

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

[^] The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

^{*} Indicates that a Quality Control parameter was not within specifications.

dd, Chiote #:	GEL Ch			•				lyti	cal	Re	equ	est		- 1	2040 Charl Phone	Labora Savageston, e: (843)	e Road SC 29	d 1407 18171	
Tient Name: TRC		Phone #: -	115-6	44-3	200			Sam	ple A	nalys	~	quest	ed (5)	(Fill	in the	numl	per of	conta	iners for each test)
Project/Site Name: Humboldt Bay Power P	lant	Fax #: 41	5-5	41-93	 378	Shoul		iners			5 3								< Preservative Type (6)
Sample ID For composites - Indicate start and stop date/time	575 500	France Carvall Time Collected (Military) (hhmm)	OC Code	Casvall Field Filtered	Sumple Matrix 4	Redioactive Consultants	lered:	Total number of conta	TORA	5206	CAM-17 MAS	C5-137				-			Comments Note: extra sample is required for sample specific QC
8-16-1.0	714108	10:00	G	NΑ	50			2	X	メ	X								
5-16-4.0 7/14/08 10:40 G MA 50 2 X X X																			
13-16-7.0																			
P6-10c-1.0	714108	11:30	6	MA	50			2	人	メ	Х								
B-16-1.0 Camma	7/14/08	10:00	6	M	50			1				X							
5-16-4.0 Camma	7/14/00	10:40	96	MA	50			١		_ 		X							
B-16-7.0 Gamma	7114100	טויוו	6	MA	50			1				X							
PS-10c-100 Gama	7/4/08	\\:>0	6	MA	50			1	-			メ							
15-106-4.0	7/14/08	11:55	6	MA	50			2	人	X	X								
P5-10c-4.0 Coanna	7/14/08	11:55	6	MA	50			1				人							
Remarks: Are there any known hazards applicable to All metals were field filtered	d (6m)	rge) Fax Rei	ults: ase lis	Yes the haz		No	<u> </u>	Cit	rele De	livers	ible: (/ Q				Samp East Cent Mou	le Col ern tral intain	VE 22 Level 3 / Level 4 lection Time Zono Pacific Other
Chain of Custo keliminished By (Signed) Date Time	Received by (si		atc	Time			CEL	PM:	F.	۱۵	54		ple Sl	ուհեյ	ng an	u Del	ivery	Detai	115
Wide Dillia 7115/08 13:00	IZ.M.	Stello	ميند	7/16	100	982					edex		ry_		Date	Shippe	ed:	7/15	08
. 0	2		1				Airbil			•									
	3						Airbil	l#:											
3 - 3 and of Custody Number = Client Determined 3 - 90 Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, El	B = Equipment Blank,	MS = Matrix Sp	oike Samj	oic, MSD =	Matrix Sp	ike Dupli	cate Sai	mple, G	= Grah	. C = C	omposite	e							For Lab Receiving Use Only
that that Filtered: For figuid matrices, indicate with a - Y - for yes the sample value with a - Y - for yes the sample value with a - Y - for yes the sample value with a - Y - for yes the sample value with a - Y - for yes the sample value.					SL≈Sludg	c. SS=So	lid Was	ic, O =0	il, F=Fi	lter, P=	Wipe, L	J=Urine	. F≃Fec	al, N=N	lasai				Custody Seal Intact? VES NO
resimple Analy quested: Analytical method requested (i.e. \$260B, 6010 A = Hydrochloric Acid, NI = Nitric Acid, SH = Sodiur	B/7470A) and number	of containers pr	ovided fo	r cach (i.e.	8260B - 3	, 6010B/	7470A -	1).								•			Cooler Temp: C

Page: 0 9 Project #: \6\0]2 GEL Quote #: COC Number (1): PO Number: \6\0]2	GEL Cha		Cus	tody	ano	l A	nal	yti	cal	Re	qu	est			2040 S Charle Phone:	Laborat Savage Eston, S : (843)	Road SC 294 556-8	107 3171	
Client Name: TRC		Phone #: V	115-6	,44-3	000			Sam	ple A	nalys	is Red	quest	ed ⁽⁵⁾						ners for each test)
Project/Site Name: Humbold - Bay Pr				<u></u> -		Shoul		iners			ENT.								< Preservative Type (6)
Address: 55 2nd street, Suite S						samp	ı	containers			Metals								Comments
Collected by: K. Gillis, M. Sellward Ser	id Results To: Moux	(mean	valho G	tres	lintions Com		pired	ber of	4	2	2	37					Ì		Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmn)	QC Code		Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	D-487	5006	CAMAI	(5-13							required for sample specific QC
P5-10c-7.0	7/14/00	12:25	6	NΆ	50			ð	X	X	Χ								
PS-10c-7.0 Ganna	7/14/08	12:25	6	M	50			7				X							
B-30-1.0	7/14/00	13:45	6	MA	50			9	X	X	Х								
B-30-1.0 Ganna	7/14/06	13:45	6	MA	50			1				×							
B-30-4.0	7/14/08	14:05	6	NA	50			2	X	X	X								
B-30-4.0 (samma	7/14/00	14:05	6	MA	50			1				X							
B-30 -7.0	7/14/00	14:20	6	MA	50			2	X	X	X								
B-30-70 Gamma	7/14/08	14:20	6	M	50			1	•			X							<u> 4.</u>
B-31-1.0	7/14/08	14:45	G	NA				2	X	X	X								
B-31-1.0 Gamma	7/14/08	14:45	 	MA	·			1				X							
		? If so, ple		Yes t the ha			5	Ci	rcle D	eliver	able: (Samp East Cen Moi	le Coll tern tral untain	ection Time Zonc Petitic Other
Relinquished By (Signed) Date Time	of Custody Signatures Received by (s	igned)	Date	Time	, -a		ļ			-					ing an	id Del	livery	Detai	ls
	00 R.M. S		7/0	,)	-	. PM:	Shipme	ut:	Fed	otac ex	ley		Date	Shipp	ed:	711	5108
2	2	8		7	· 		Airb	iii #:							 -				
3	3					•	Airb	ill #:						_		· · · · · · · · · · · · · · · · · · ·		т	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field E 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes t 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=S 5.) Sample Analysis Requested: Analytical method requested (i.e. & 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, S	he sample was field filtered or - N urface Water, WW=Waste Water (2608, 6010B/7470A) and numbe	l - for sample w r, W=Water, SC er of containers	as not fiel D=Soil, SI provided I	d filtered. D=Sediment or each (i.e.	SL=Sludg 8260B	ge, SS=S 3, 6010B	olid Wa /7470A	isto, O=1	Oil, F=I	ilter, P	-Wipe.	U=Urin						-	Custody Seal Intact? (VES NO Cooler Temp: C

Page 3 of 9 Prince: #: \b\ 072 GEL, Quote: #: COU Stumber: \b\ 072	GEL Ch		Cus	tody	and	l A	nal	yti	cal	Re	equ	est			2040 : Charle Phone	Labora Savag eston, e: (843	e Roa SC 29 3) 556	9407 -8171	
Client Name: TRC		Phone #: 41	15-6	44-3	000			Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾	(Fill i	n the	numl	ber of	conta	iners for each test)
Propositio Name: Hunboldt Bay Pour		Fax #: 415				Shoul	d this	iners			thro3								< Prescrvative Type (6)
Address: 98 Ind St., Suite 575,	San Francisc	o, CA	7410	5		consid	lered:	f containers			Metals								Comments
Collected by: K. Gillis, M. Sellwood Send	Results To:	(in curval Larvalho	~ Q	مدحما	ations. Con		pated	ber of	75	4	٤	2							Note: extra sample is
Sample ID For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time	C Code	Field Filtered ⁽¹⁾	Sample Matrix ⁴¹	Radioactive	TSCA Regulated	Total number	TPHA	5000	CAM-17	C5-137							required for sample specific QC
B-31-4.0	7/14/00	15:00	6	NΆ	50			2	X	X	X								
B-31-4.0 Ganna	7/14/00	15:00	6	NA	50			1				X							
B-31-6W	7/14/08	15:15	G	7	GW			3	X	X	X.								
3-15-1.0	7/14/08	16:10	G	NA	50			ک	X	X	X					-			
3-15-1.0 (sqmna	7/14/00	16:10	6	NA	50			Ĭ				X							
B-15-4.0	7/14/08	16:15	6	M	50			a	X	X	X				,				
B-15-4.0 Gamma	7/14/08	16:15	C	NA	50			1				X							
B-15-6W	7/14/108	 	6	7	611			3	X	X	X								
			-																
TAT Requested: Normal: Rush: V Specify:	15 W. (Subject to Surcha	rge) Fax Resi	ilts:	Yes		K	3	Cir	cle De	livera	ble: (of A	/ Q0	Sum	mary	/ Lo	evel I	/ Ce	ve(2) / Level 3 / Level 4
Remarks: Are there any known hazards applica			se list	the haz	ards										٠		East Cen	ern	ection Time Zons Pacific Other
Chain of C Relinquished By (Signed) Date Time	Custody Signatures			Time										ippin	g an	d Del	ivery	Detai	ls
	Received by (si	gned) Da		2/./	_		GEL	PM:	<u> </u>	rin	5	tan	ley		·				
1 Kyle Halls 7115/04 13:00	11/11/1	XIXI	7	7.6/0	50	400	Metho	d of SI	hipmen	t: T	<u>ed</u>	ex		1	Date :	Shippe	d:	7/1	5/08
	2			···	····		Airbill										·		· · · · · · · · · · · · · · · · · · ·
1. Tame of Custody Number = Client Determined			·	· - ·			Airbill			,								E	or Lab Receiving Use Only
2.1 OC Canes: N = Normal Sample, TB = Trip Blank, FD = Field Duplic 3.1 (and intered; For liquid matrices, indicate with a - Y - for yes the sa	mple was field filtered or - N	- for sample was r	not field	filtered.															Custody Seal Intact?
Ag Mariak (odes: DW=Drinking Water, CW=Groundwater, SW=Surfaces (Sample Analysis Requested: Analytical method requested (i.e. 8260)	, 6010B/7470A) and number	of containers prov	vided for	cach (i.e. {	3260B - 3.	6010B/	7470A -	ſ).			-							<u> </u>	(YES) NO Cooler Temp:
** Of the conditive Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = WHITE = LA				Acid, HX : W = FI		ST = So	dium Th		ic. If no K = C			added =	leave fi	eld blan	k.			L	c

Page: V of 9 Project #: 161072 GEL Quote #: COC Number (1): PO Number: 161072	GEL C	hain of C	ustody	and	l Ana	lyti	cal	Re	que	st		2040 S. Charles Phone:	aboratorio avage Ro ston, SC 2 (843) 556 43) 766-1	ad 19407 6-8171	
Client Name: TRC		Phone #: 415	5-644-34	000		Sam	ple A	nalysi	s Rea	ested (⁵⁾ (Fil	l in the r	number c	of contai	ners for each test)
Project/Site Name: Humboldt Bay P.	ower Plant	Fax #: 415 -	541-93	78	Should this	1 - 1			HW						< Preservative Type (6)
Address: 55 2nd Street, Suite Collected by: K. 611173, M. Sellwood Sample ID * For composites - indicate start and stop date to	Send Results To:	x Larvally ed Time Collected QC (Military)		Sample	Radioactive 3 S. TSCA Regulated	Total number of cont	PHA	405	CAM-11 Metal	C5~17]					Comments Note: extra sample is required for sample specific QC
B-20-GW	7 14 0	8 1340 G	a/Y	8	2	3	\boxtimes	\geq	\times						
13-14-GW	V	1625	Y	←	→	3		V							
B-20-0.5		1006	NA	5		2		1							
B-20 -4.5		1025		ŀ					\prod						
B-20-75		1048				V	V	V	V						
13-20-0:5 gamma		1000				1				X					
B-20 - 4.5 gamma		1025		1		11				1					
13-20 - 7.5 gamma		1048		V		1				V					
PS-14C-0.3	l	1130				2	X	X	X						
PS-14C-4.5			VV	1	V	1		1	1						
TAT Requested: Normal: Rush: X Remarks: Are there any known hazards a		urcharge) Fax Result ples? If so, please	lts: Yes e list the haz		6		rcle D	eliver	able: C	of A /	QC S	Jimmary	Sar E		lection Time Zone Pacific Other
	ain of Custody Signatu									<u></u> -	<u>-</u>	ping an	d Delive	ry Deta	ils
Relinquished By (Signed) Date Tim	. 0.	by (signed) Date Date		01	GE Met	L PM:			Fede	x X	<u>-</u> -	Date	Shipped:	7/1	5/08
2	2	1	1		Airt	oill #:							·		· · · · · · · · · · · · · · · · · · ·
3	3				Airt	oill#:								- 	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = F 3.) Field Filtered: For liquid matrices, indicate with a - Y - for 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S 5.) Sample Analysis Requested: Analytical method requested	r yes the sample was field filtered SW=Surface Water, WW-Waste	or - N - for sample was no Water, W=Waler, SO=Se	ot field filtered. oil, SD=Sediment.	SL=Sludg	c, SS=Solid W	aste, O=(Oil. F=ì	ilter, P	∘Wipe, U	=Urine, F	≃Fecal, N				Custody Seal Intact? (YES) NO Cooler Temp:

GPL Quote #:	GEL Ch		Cu	stody	y an	d A	na	lyti	cal	Re	equ	est		2040 Charl Phone	Laborato Savage R eston, SC e: (843) 5	load 29407 56-8171	
Client Name: TRC		Phone #: L						Sam	ple A	naly	~ ~~	queste	ed ⁽⁵⁾ (F	ill in the	number	of con	tainers for each test)
Project/Site Name: Humblot Boy Power	- 1 - 3-11	Fax #: 410	<u>_</u>			- I sam	ld this	containers			HW						< Preservative Type (6)
Address: 55 July 51. Suite 575 Se Collected by: K. Gillis, M. Sellwood Send Resu Sample ID For composites - Indicate start and stop date/time	Tanci3 Its To: No my *Date Collected (mm-dd-yy)	Co CA Carval Time Collected (Military) (hhmm)	941 00 Codd	1	Sample	cons	TSCA Regulated	Total number of cont	1年中	5000	CAM-11 NOW	C5-137					Comments Note: extra sample is required for sample specific QC
PS-14C-75	7/14/08	121b	G	NA	5	Ì		2	\times	\angle	X						
175-146- D. 7 gamma		1130						1				\times					
PS-14C-4,5 gamma		1157						1									
PS-14C-7.5 gamma	1	1216	V	V	V		-	V									
B-13-6.5	1	1405	1.	1	1			2	X	X	X						
B-13 - 4.5		1420							1								
B-13- 75		1423				1		1	7		1						
B-13 - 0.5 gamma	<u> </u>	1405						i				X					
B-13-4.5 gamma	1	1420				1						1					
13-7.5 gamma	1	1423	V	1	V			V				7		1			
TAL Requested: Normal: Rush: X Specify: 45	(Subject to Surcha		sults:	Yes		··· ×	D	Ci	rele De	liver	ble: C	of A	/ OC 9	Summary	/ Leve		Sef2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to	these samples	? If so, ple	ase lis												S a E		Other
Chain of Custo	Received by (si	aned) T	atc	Time			<u> </u>							ping an	d Delive	ry Det	ails
	1 1	AAA.	_/	/	٠			PM:			·	tan	<u>ley</u>				
Myle Hiller 7/15/08 13:00	IV.IN. XX	ellen	-4/0	6/03	0	00	T		hipmen	<u>1: </u>	数大艺	Χ_		Date	Shipped:	71	15/08
	12	<u> </u>		<u>. </u>			Airbi									 ,	
Figure 6 Custody Number = Client Determined Strong Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, E	8 w Equipment Block	MS = Matrix S	nike Sam	nle. MSD =	Matrix Sr	nike Dun	Airbi		= Grah	C=C	mposite					T.	For Lab Receiving Use Only
$\tau_{\rm eff}$ (with followed: For liquid matrices, indicate with a - Y - for yes the sample of	vus field filtered or - N	- for sample wa	not lield	l filtered.									F-F				Custody Seal Intact?
Matthe Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, Sample Analysis Requested: Analysical method requested (i.e. 8260B, 6016 as process ative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium	B/7470A) and number	of containers p	ovided fo	or each (i.e.	8260B -	3, 6010B	77470A	- 1).			•						Cooler Temp:

GEL Quote #:	GEL Chain (of Cus	tody	and	i Ana	lyti	cal	Re	que	est		2040 Char Phon	Laborat Savage leston, S e: (843)	Road SC 294	107 3171	
Client Name: TRC	Phone i	1:415-64	14-30	000		Sam	ple A	nalys	~~`	uested	⁽⁵⁾ (F	ill in the	e numb	er of o	contair	ners for each test)
Project/Site Name: Humboldt Bay Payer	Plant Fax #:	115 -54	H- 93	78	Should this	containers			是							< Preservative Type (6)
Address: 65 2rd St., Suite 575, So		(A 94	1105			Conta			B							Comments
Collected by: K. Gillis, M. Sollwood Send Result	s To: May Carv	volho @	tresol	utions	ated	iber of	16	2	Z	2						Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected Collect (mm-dd-yy) (Militai (hhmr	ed QC Code	Field Filtered ⁽³⁾	Sample Matrix (4)	Radioactive TSCA Regulated	Total number	184-A	42005	CAM-17 MADES	C5-137						required for sample specific QC
6-17-0.5	7)14/08/145	06	NA	5		2	X	X	X							
B-17 - 4.5	1510	,		1			1		11							
B-17-75	152	5				1	1	1	7							
B-17-0.5 garning	1451					1				X						
B-17-4.5 gamma	1511															
B-17-7.5 gamma	152	5 V	1	V		V										
13-14-0.5	155	5 1	1			2	X	X	X							
B-14-4.5	160	5				1										Mr.
B-14-7.5	161	3				T	V	I	V							
13-14-0.5 gamma	V 155	5	V	V		1				X						
TAT Requested: Normal: Rush: X Specify. 481 Remarks: Are there any known hazards applicable to All metals were field filter		x Results: please list	Yes the ha	zards	(NO)	C	rele D	eliver	able: C					Samp East Cent Mou	le Colle em tral intain	Level 3 / Level 4 setion Time Zone Pacific Other
Relinquished By (Signed) Date Time	dy Signatures Received by (signed)	Date	Time							:		pping a	nd Del	ivery	Detail	ls
Whe Hillis 7115/00 13:00	RN Stell	1	1.6/0	8	GE SOOMei				st ede		ey	Dat	e Shipp	ed:	7/15	108
2	2					ill #:			· ———				·		<u>:</u>	· · ·
1.1 Chain of Custody Number = Client Determined 2.1 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EE 3.1 Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample w 4.1 Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water	vas field filtered or - N - for same er, WW=Waste Water, W=Wate	ple was not field r. SO≃Soil, SD	l filtered. =Sediment.	SL≃Sludį	sike Duplicate S	psie, O=					F=Fecal,	N≃Nosal			F	or Lab Receiving Use Only Custody Seal Intact? YES: NO Cooler Temp:
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B. 6010		l. AA = Ascorbi		= Hexane		Thiosull		o preser CLIE		odded =	leave field	j blank			<u></u>	Cooler Temp.

Project #:	GEL Ch	nber:				d A	na	lyti	cal	Re	equ	est			2040 Sa Charlesi Phone: (boratori ivage Ro ton, SC (843) 55 (843) 766-	oad 29407 66-8171	;
Chent Name: TRL		Phone #: -	115-6	644-3	000			Sam	ple A	nalys	_=_	quest	ted ⁽⁵⁾ ((Fill i	n the n	umber	of cont	ainers for each test)
Project/Site Name: Humboldt Bay	Power Plant	Fax #: 41	5-5	41-9	378		ld this	iners	·		¥ 2							< Preservative Type (6)
Address: 55 and 5t., Suite 5							ole be dered:	conta			Mcta							
Collected by: K. Gillis, M. Salvood	Send Results To: Mcan	ralho &	125	dutio	۸5.(D		fed	ber of		ź		2		İ				Comments Note: extra sample is
Sample ID Tor composites - indicate start and stop date!	*Date Collected	•Time	QC Code		Sample	active	TSCA Regulated	Total number	TPH-A	tyecs.	CAM-77	C5-137						required for sample specific QC
13-7-7.5	7/15/08	1000	6	NA	S	N		2	X	X	\bigvee							
3-7-0.5 gamma		0920				1		}				X		,				
3-7-4.5 gamma		0940						1				X		-				
3-7-4.5 gamma B-7-7.5 gamma		1000	L	L	¥	$ \downarrow\rangle$		V				X						
B-7-gwa		1025	1	Y	8			3	X	X	X							
B-7-9wb		1025	V	Y	W	V		3	X	∇	X							
95-016-1.0		8:30		MA	5	h		ىو	X	X	X							
P5-01c-4.0		8:40		1	5	\prod		B	X	4	X							
95-012-7.0		9.15			5			ð	7	+	人							
PS-012-1.0 Gamma	J	8:30	>	1	5	V		1				X						
LAT Requested: Normal: Rush: \S	pecify. 15 W. (Subject to Surch	arge) Fax Res	sults:	Yes	/	No.	<u>)</u>	Cir	cle De	livera	ble: C	of A	/ QC	Sum	mary /			evel 2 / Level 3 / Level 4
Remarks: Are there any known hazards ap		s? If so, pled	ase lisi	t the haz	ards											Ēa Ce	stern stern entral ountain	Rection Time Zong Pacific Other
	in of Custody Signatures		•						`			Sam	ple Sh	ippin	g and	Deliver	y Deta	ils
Refinquished By (Signed) Date Time			atc	Time			GEL	PM:	Ê	<u>r'n</u>	570	<u>wle</u>	1					·
Myle Bills 7/15/08	13:00 P.M. I	Cellen	7/	16/00	0	200	Metho	od of SI	ipmen	<u>: F</u>	dex				Date Sh	ipped:	7/1	5/08
V .	2						Airbil				<u>.</u>	<u>-</u> -						-
Airbill #: For Lab Receiving Use Only									For Lab Receiving Use Only									
Cooler Temp: Co																		

Page: 8 of 9 Project #: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		GEL Ch		Cus	stody	and	d A	nal	yti	cal	Re	qu	est		204 Ch Ph	L Labo 40 Sava arlestor one: (84 x: (843)	ge Roa 1, SC 2 13) 556	id 9407 i-8171	
Client Name: TRC			Phone #: U	115-6	044-3	000	Sample Analysis Requested (5) (Fill in the number of containers for each test)										ainers for each test)		
Project/Site Name: Hunboldt Bay	Power P	lant	Fax #: \\\				Shoul	d this	iners			FIN		-					< Preservative Type (6)
Address: 55 and St. Suite S	75, San	Francis	co, CA	i q	4105		consid	Jered:	container			Metak							
Collected by: K. Gillis, M. Sellwood	Send Result	s To: Moux	cirvalh (arva	00 4	resol	whitens con		p	er of			2	37			ŀ			Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date.		*Date Collected (mm-dd-yy)	. *Time	QC Code	Filtered (3	Sample	Radioactive	TSCA Regulated	Total number	194-A	GNICS	CHW-1)	CS -1						required for sample specific QC
B-14-4.5 gamma		7/14/08	1605	9	NA	5			1				X	.					
B-14-4.5 gamma B-14-7.5 gamma		1	1613	1	1	J			1				X						
8-9-0.5		7/15/08	0843	1		1			2	V	X	X	- 1						
B-9-4.5			0855						1	1		1							
B-9-7.5			0910								J	J							
		1	0843						1	_		•	X						
B-9-05 gamma B-9-4.5 gamma			0855						1				.)						
B-9-75 gamma			0910	V	V	V			V										E.,
B-7-0.5		1	0920	1		1			2	V	X	X							
13-7-4.5		1	0940	V	1	V			1	X	X	X				1/	1		
TAT Requested: Normal: Rush: X Specify: 40 K. (Subject to Surchurge) Fax Results: Yes / Bb Circle Deliverable: C of A / QC Summary / Level 3 / Level 4 Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards All matals were field fiftered (6w) Thereof (6w) Thereof (6w) Thereof (6w) Thereof (6w) Thereof (6w)									ollection Time Zone Pacific Other										
		ly Signatures		Data	Time										ipping	and D	eliver	y Deta	ails
101 111 2	OEL PM: DNO 3/40/18								ો ઇ										
2	·	2			· /	1 -		Airbi	11 #:										
3		3			·			Airbi	11-#:										
 Chain of Custody Number = Client Determined OC Codes: N = Normal Sample, TB = Trip Blank, FD = F Field Filtered: For liquid matrices, indicate with a - Y - fo Matrix Codes: DW=Drinking Water, GW=Groundwater, S Sample Analysis Requested: Analytical method requested Preservative Type: HA = Hydrochloric Acid, NI = Nitrie A 	r yes the sample w SW=Surface Water (i.e. 8260B, 6010l	as field filtered or - N r. WW=Waste Water B/7470A) and numbe	- for sample w. , W=Water, SO r of containers p	as not fiel D=Soil, SE provided t	d filtered. D=Sediment. for each (i.e.	SL=Studg 8260B - 3	gc. SS=S 3, 6010B	olid Wa /74701	sic. O=	Oil, F≃i	ilter, P	Wipe.	U≃Urino			al	•		Custody Seal Intact? YES NO Cooler Temp:

Page. 9 of 9 Propert #: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GEL Ch		Cus	stody	y and	d A	na]	lyti	ical	R	equ	est		20 C PI	040 Sa narlest none: (boratori vage Ro on, SC 3 843) 55 3) 766-	oad 29407 6-8171	
Client Manne: TRC	•	Phone #: 4	15-6	44-3	000			San	nple A	naly	sis Re	quest	ed (5)	(Fill in	the n	umber (of con	tainers for each test)
Proposi/Site Name: Humboldt Bay Power	Plant	Fax #: 41	5- <u>§</u>	41-9	378		ld this	containers			H.M.							< Preservative Type (6)
Address: 55 200 st., Suite 575, 50		CA 9	4105				dered:	cont			Metak				4			
		valho @		54.4.	405 Cm		2	er of				7					Note: extra sample is	
Sample ID	*Date Collected (mm-dd-yy)	*Time	QC Code	Field	Sample Matrix ⁽⁴⁾	ictive	TSCA Regulated	Total number	できし	Susce	CAMAD	C5-137						required for sample specific QC
P5-01c-4.0 Game	7115/66	8:40	6	NA	5	N		١				X					T	
P5-012-7.0 Gamma	1	9:15		1	5			1				X						,
6-3-1.0		9:35			5	\prod		1	X	X	X							
8-3-40		9:50			6	П		2	X	X	4							
B-3-1.0 (sanna		9:35			5	\prod		П				X						
B-3-4.0 Campa		9:50	1	1	6	J		1				1						·
																	1.	
					1									7	7	+	1	
				ļ		1					1			7	_		1	
				<u> </u>	 					-				_	_	1	1	
TAT Requested: Normal: Rush: K Specify:	K Kersukinus en sumh	Fox Res		Yes	 ,	N)	Ci	rcle D	eliver	able: (of A	/ Ör	Summ	arv /	Level		Level 3 / Level 4
Remarks: Are there any known hazards applicable the filtered	e to these samples	? If so, plea	ase lisi													San Ea Ce		Hecilon Time Zonc Pacific Other
	stody Signatures													ipping	and	Deliver	y Det	ails
Redimentished By (Signed) Date Time	Received by (s	· .	atc	Time			GEL	PM:	Ľ	Cin	5	anles	<u>(</u>				<u>. </u>	·
Wighe 15th 7/14/08 13:00	I'M &	lellez	, 7/	14/04	g c	rae	Meth	od of S	hipmer		fede				ate Sh	ipped:	7115	08
2	2		<u> </u>		J		Airbi	#;										
1. Chain of Custody Number - Client Determined]3						Airbi										T^-	For Lab Receiving Use Only
2., OC Costs: N = Normal Sample, TB = Trip Blank, FD = Field Duplier 3., Field Fittered: For figuid matrices, indicate with a - Y - for yes the san 3. Matrix, Codes: DW=Drinking Water, GW=Groundwater, SW=Surface 5. Sample Analysis Requested: Analytical method requested (i.e. 8260B)	ple was field filtered or - N Water, WW=Waste Water 60108/7470A) and numbe	! - for sumple was . W=Water, SO= r of containers pr	not field Soil, SD= nvided fo	filtered. •Sediment, r cach (i.e,	SL=Sludge 8260B - 3,	s SS=Sc . 6010B/	iid Was	ile, O=(- 1).)ii, F=F	ilter. P=	Wipe, i	J≈Urine			ı ı		-	Custody Seal Intact? VES NO Cooler Temp:
the stative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = S WHITE = LAI		ifuric Acid, AA *	· Ascorbío /ELL(c Acid, HX DW = Fl	≠ Hexane, ILE	ST = S	odium T		iic, ii'nd K = (added =	leave fu	id blank			<u> </u>	<u>c</u>

SAMPLE RECEIPT & REVIEW FORM

Clic	ent: TRC				SDG/ARCOC/Work Order: 212041, 212047, 212049
Rec	eived By: RMS				Date Received: 7/16/08
Sus	pected Hazard Information	Yes	Ž.	*If Co	ounts > x2 area background on samples not marked "radioactive", contact adiation Safety Group of further investigation.
	C/Samples marked as radioactive?	1			mum Counts Observed*:
Clas	sified Radioactive II by RSO?	T	7		60 cpm
CO	//Samples marked containing PCBs?	1	7		
Ship	ped as a DOT Hazardous?		1	Hazar	d Class Shipped: UN#:
Sam	ples identified as Foreign Soil?		フ		
	Sample Receipt Criteria	Yes	NA NA	2 Z	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		,		Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)?		:		Preservation Method: Jee bags blue ice dry ice none other (describe)
3	Chain of custody documents included with shipment?				
4	Sample containers intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	1		- 1	mple ID's, containers affected and observed pH: Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		1	Sai	mple ID's and containers affected:
7	Are Encore containers present?			Qf.	yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?			ld's	and tests affected:
	Sample ID's on COC match ID's on bottles?			San	raple ID's and containers affected: .
187 1	Date & time on COC match date & time on bottles?	1		Sam	ple ID's affected:
	Number of containers received match number indicated on COC?		-	/ l	ple D's affocted: 2-250 amber & 1-250 mcplestic vero are S confa. hers for 10 D-7-7,5
	COC form is properly signed in elinquished/received sections?				
mme					
ر	ce continuation shee	et.			
	•				
,					
	D14/ D141		9.W		7/16/08
	PM (or PMA) review. Initials		1. V V	w	Data 11(010)



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TRC	Date Received: 7/16/	05	Page	of
Fedex 10:	10	emp:		
8647	7 14 +2 6659	5c		
7955		_3८		
7955	16904 0662	4		· ·
264		4c 5c		
79.85	1694 0651			
7955	1694 0673 1694 0710	40		
4755	1654 0710	36		
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List of current GEL Certifications as of 25 July 2008

State	Certification
Arizona	AZ0668
Arkansas	88- 06 51
CLIA	42D 0904 046
California – NELAP	011 51 CA
Cólorado	GEL
Connecticut	PH- 0 169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/ NELAP)
Georgia DW	96 7
Hawaii	N/A
ISO 17025	2 567 .01
Idaho	SC00012
Illinois – NELAP	2000 29
Indiana	C- SC -01
Kansas - NELAP	E-10332
Kentucky	90 129
Louisiana – NELAP	030 46
Maryland	270
Massachusetts	M-SC012 ·
Nevada	SC00012
New Jersey - NELAP	SC002
New Mexico	FL NELAP E87156
New York - NELAP	11501
North Carolina	233
North Carolina DW	45 709
Oklahoma	9904
Pennsylvania - NELAP	68-0 0485
South Carolina	1012 0001 /10120002
Tennessee	TN 02934
Texas - NELAP	T1047 0423 5-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah - NELAP	GEL
Vermont	VT8 7156
Virginia	00151
Washington	C1641



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

July 30, 2008

Mr. Moises Carvalho TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California 94105

Re: Humboldt Bay NPP Project 161072, Task 2400

Work Order: 212150

Dear Mr. Carvalho:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 17, 2008. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable **you** to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stanley

Project Manager

Purchase Order: 161072

Enclosures

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report

TRCS002 TRC Solutions

Client SDG: 212150 GEL Work Order: 212150

The Qualifiers in this report are defined as follows:

- A quality control analyte recovery is outside of specified acceptance criteria
- Analyte is a surrogate compound
- Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-2-1.0 Gamma 212150006

Soil

Matrix: Collect Date:

5

Result

Collect Date: Receive Date:

Qualifier

15-JUL-08 13:50 17-JUL-08

Collector:

Client

Parameter
Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0259

) +

+/~0.0261

Uncertainty

0.0499

DL

0.100

RL

.

DF

Project:

Units

pCi/g

Client ID:

.

Time Batch Method

MJH1 07/24/08 1330 775737

Report Date: July 30, 2008

TRCS00200 TRCS002

AnalystDate

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchDry Soil PrepDry Soil Prep GL-RAD-A-021BSW107/18/081226775220

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-2-4.0 Gamma 212150007

Project: Client ID: TRCS00200 TRCS002

Report Date: July 30, 2008

Matrix:

Soil

Collect Date:

15-JUL-08 14:20

Receive Date:

17-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF AnalystDate	Time Batch Method
Rad Gamma Spec Analysis								9.4

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0185 +/-0.0244

0.0431

pCi/g

0.100

MJH1 07/24/08 1331 775737 1

The following Pre	`					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/18/08	1226	775220	

The following Analytical Methods were performed

Method	Description	Analyst Comments
	ENG 17 101 000 1 5 0 0	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-2-7.0 Gamma

212150008

Soil

Matrix: Collect Date:

Receive Date:

15-ЛИЦ-08 14:30 17-JUL-08

Collector:

Result Uncertainty

Qualifier

Client

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0123

+/-0.0333

0.0591

DL

RL

Time

1226

DF

Project: Client ID:

Units

pCi/g

MJH1 07/24/08 1332 775737

Time Batch Method

Report Date: July 30, 2008

TRCS00200

AnalystDate

Prep Batch

775220

TRCS002

The following Prep Methods were performed

Method Description Analyst Date BSW1 Dry Soil Prep Dry Soil Prep GL-RAD-A-021 07/18/08

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-6-1.0 Gamma

212150009

Matrix:

Collect Date:

15-JUL-08 15:15

Receive Date:

17-JUL-08

Collector:

Qualifier

Client Result Uncertainty

٠	Parameter		
	Rad Gamma	Spec	Analysis

· Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.00926

+/-0.0266

DL

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

МЈН1 07/24/08 1508 775737 1

Time Batch Method

Report Date: July 30, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method Description Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst BSW1

Date 07/18/08 Time Prep Batch

1226

775220

The following Analytical Methods were performed

Method Description

EML HASL 300, 4.5.2.3

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-6-4.0 Gamma 212150010

Matrix:

Soil

Collect Date:

15-JUL-08 15:20

Receive Date:

Collector:

17-JUL-08 Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Method
D 10 0 1 1 1										· · · · · · · · · · · · · · · · · · ·

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137.

U -0.0163 +/-0.0414

0.0682

0.100

Project:

Client ID:

МЈН1 07/25/08 0802 775737 - 1

Report Date: July 30, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/18/08	1226	775220

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-6-7.0 Gamma

212150011

Matrix:

Collect Date:

Soil

Receive Date: Collector:

Qualifier

15-JUL-08 15:35 17-JUL-08

Client

Result Uncertainty

Parameter

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected" -0.00589

+/-0.0511

DL

0.100

RL

DF

1226

Project:

Client ID:

Time Batch Methor

U

Cesium-137

0.0834

pCi/g

Units

MJH1 07/25/08 0857 775737 1

Report Date: July 30, 2008

TRCS00200

AnalystDate

775220.

TRCS002

The following Prep Methods were performed

Method Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst BSW1 Date 07/18/08 Time Prep Batch

The following Analytical Methods were performed

Method

Description

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-11-1.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 30, 2008

Matrix:

Sample ID:

212150012

Soil

Collect Date:

15-JUL-08 16:10

Receive Date: Collector:

Qualifier

17-JUL-08 Client

Result Uncertainty DL RLUnits DF AnalystDate Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

U -0.00164 +/-0.0178

0.030

0.100

pCi/g

МЛН1 07/25/08 0858 775737 1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/18/08	1226	775220

The following Analytical Methods were performed

Method Description **Analyst Comments**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 30, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-11-4:0 Gamma 212150013

Matrix:

Soil

Collect Date: Receive Date:

EML HASL 300, 4.5.2.3

15-JUL-08 16:20 17-JUL-08

	Collector:	(Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec	Analysis										
Gammaspec, Gamm	a, Solid "Dry Weight Co	orrected"								•	
Cesium-137	U -0	.00639 +	-/0.0345	0.0589	0.100	pCi/g	Î	МЛНІ 07/25/08	0858 7	75737	I
The following Prep	o Methods were perfor	med				,					
Method	Description				Analyst	Date	Time	Prep Batch	1		
Dry Soil Prep	Dry Soil Prep C	GL-RAD-A	-021		BSW1	07/18/08	1226	775220.			
•				•					•		
The following Ana	lytical Methods were p	erformed									
Method	Description				/	Analyst Comm	ents				

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Dry Soil Prep GL-RAD-A-021

Contact:

Dry Soil Prep

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix: Collect Date: Receive Date:

B-11-7.0 Gamma

Project: Client ID:

07/18/08

1226

TRCS00200 TRCS002

775220

Report Date: July 30, 2008

212150014 Soil

15-JUL-08 16:55 17-JUL-08

Collector:

	Concetor.		Chem			, ر					
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight (Corrected"				*		*			
Cesium-137	ับ	0.049	+/-0.0631	0.112	0.100	pCi/g	:	млн1 07/26/08	0614 77	75737	1 (
The following Prep	Methods were perfo	rmed					*			•	(.
Method	Description				Analyst	Date	Time	Prep Batcl	1		

BSW1

•		

The following	Analytical Methods were performed	
Method	Description	Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 30, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-4-1.0 Gamma 212150015

Soil

Matrix: Collect Date:

16-JUL-08 07:50

Receive Date:

17-JUL-08

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight Co	orrected"			•			• •			
Cesium-137	U -0	0.00459	+/-0.0529	0.0865	0.100	pCi/g		MJH1 07/25/08	1001 7	775737	. 1
The following Prep	Methods were perfor	med									. '
Method	Description	-			Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep C	GL-RAD-A	A-021	1	BSW1	07/18/08	1226	775220			

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	,

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

212150016

Matrix:

Collect Date:

Qualifier

Soil

16-JUL-08 08:10 17-JUL-08

B-4-4.0 Gamma

Receive Date: Collector:

Client Result RLAnalystDate Uncertainty Units DF Time Batch Method DL

Project: Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

U 0.0104 +/-0.036

0.062

pCi/g

0.100

МЛН1 07/26/08 0614 775737

Report Date: July 30, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Time Method Description Analyst Date **Prep Batch** Dry Soil Prep Dry Soil Prep GL-RAD-A-021 BSW1 07/18/08 1226 775220

The following Analytical Methods were performed

Method Description **Analyst Comments**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

PS-06C-0.5 Gamma

Project: Client ID: TRCS00200 TRCS002

AnalystDate

Report Date: July 30, 2008

Matrix:

Collector:

212150017

Soil

Collect Date:

Receive Date:

Qualifier

16-JUL-08 08:40 17-JUL-08

Client

Result Uncertainty

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

0.0195

+/-0.0262

0.049

DL

pCi/g

МЈН1 07/26/08 0615 775737

Time Batch Method

The following Prep Methods were performed

Method Description

Dry Soil Prep Dry Soil Prep GL-RAD-A-021 Analyst BSW1

RL

0.100

Date

Units

Time Prep Batch

07/18/08 1226 775220

DF

The following Analytical Methods were performed

Method Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

PS-06C-2.0 Gamma 212150018 .

Soil

Matrix:

Collect Date:

Receive Date:

Qualifier

16-JUL-08 08:50 17-JUL-08

Uncertainty

Collector:

Client

Parameter

Rad Gamma Spec Analysis

Result

Gammaspec, Gamma, Solid "Dry Weight Corrected" Cesium-137

0.00529

+/-0.023 0.0395 0.100

RL

pCi/g

Units

Project:

Client ID:

DF

Report Date: July 30, 2008

TRCS00200

AnalystDate

TRCS002

МЛН1 07/26/08 0616 775737

Time Batch Method

The following Prep Methods were performed

Method Description

Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

BSWI

Analyst

DL

Date 07/18/08 Time Prep Batch 1226

775220

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-06C-6.5 Gamma 212150019

Project:

TRCS00200

Report Date: July 30, 2008

Client ID:

TRCS002

Matrix: Collect Date: Soil

Receive Date:

16-JUL-08 09:20

17-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Method
			•							

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.00126 +/-0.0394

0.0667

0.100

pCi/g

МЛН1 07/26/08 0902 775737 1

The following Pre	p Methods were performed					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/18/08	1226	775220	

The following A	Analytical Methods were performed		
Method	Description	Analyst Comments	
]	EML HASL 300, 4.5.2.3		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-12-1.0 Gamma 212150020

Matrix:

Collect Date:

Qualifier

Soil

16-ЛИЦ-08 10:00 17-JUL-08

Receive Date: Collector:

Client

Parameter

Result Uncertainty

Cesium-137

Dry Soil Prep

Gammaspec, Gamma, Solid "Dry Weight Corrected" 0.0962

+/-0.0609

0.0507

DL

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

MJH1 07/26/08 0903 775737

Time Batch Method

AnalystDate

TRCS00200 TRCS002

Report Date: July 30, 2008

The following Prep Methods were performed

Method

Rad Gamma Spec Analysis

Description

Dry Soil Prep GL-RAD-A-021

Analyst BSW1 Date 07/18/08 Time Prep Batch

1226 775220

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-12-4.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 30, 2008

Matrix:

212150021

Soil

Collect Date: Receive Date: 16-JUL-08 10:15 17-JUL-08

Collector:

Client

Parameter Qualifier RLDF Uncertainty DL Units AnalystDate Time Batch Method

0.100

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.0108 +/-0.0347

0.0577

pCi/g

МЈН1 07/26/08 0903 775737

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1 07/18/08 1310 775221

The following Analytical Methods were performed

Method Description **Analyst Comments**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-32-1.0 Gamma

212150022

Matrix: Collect Date:

Soil

16-JUL-08 10:40 17-JUL-08

Receive Date: Collector:

U

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Method
Rad Gamma Spec Analysis		,								

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

+/-0.0309

0.060

0.100 pCi/g MJH1 07/26/08 0904 775737 1

Report Date: July 30, 2008

TRCS00200

TRCS002

Project: Client ID:

The following	r rep Methods were performed				·		
Method	Description	,	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-	-A-021	CXC1	07/18/08	1310	775221	

The following Analytical Methods were performed

Method	Description Description	Analyst Comments	
1	EML HASL 300, 4.5.2.3		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-32-4.0 Gamma

212150023

Matrix: Collect Date:

Qualifier

Soil

16-JUL-08 11:00

Receive Date: Collector:

17-JUL-08 Client

Parameter

Rad Gamma Spec Analysis Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137.

U 0.0137

+/-0.0259

Result Uncertainty

0.0451

DL

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

MJH1 07/26/08 0905 775737

Time Batch Metho

Report Date: July 30, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method	Description	Analys	t Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC	07/18/08	1310	775221	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EMI HASI 300 4523	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-32-8.0 Gamma 212150024

16-JUL-08 11:40

Soil

Matrix: Collect Date:

Receive Date:

Collector:

17-JUL-08 Client

			0110111							
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch	Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0174 +/-0.0294

0.0479

0.100

pCi/g

Proiect: Client ID:

МЛН1 07/26/08 0905 775737 1

Report Date: July 30, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch CXC1 07/18/08 1310 775221 Dry Soil Prep Dry Soil Prep GL-RAD-A-021

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

PS-02C-0:3 Gamma 212150025

Matrix: Collect Date:

Qualifier

Soil

15-JUL-08 10:20 17-JUL-08

Receive Date: Collector:

Client

Parameter

Result Uncertainty

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.00702

+/-0.0422

0.0727

DL

0.100

Analyst

RL

pCi/g

Units

Project:

Client ID:

MJH1 07/26/08 1120 775737

Time Batch Metho

Report Date: July 30, 2008

TRCS00200 TRCS002

AnalystDate

The following Prep Methods were performed

Method Description

Dry Soil Prep Dry Soil Prep GL-RAD-A-021 CXC1

Date 07/18/08 Time 1310

Prep Batch 775221

The following Analytical Methods were performed

Method

Description

Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

PS-02C-4.5 Gamma 212150026

Project: Client ID: TRCS00200 TRCS002

Report Date: July 30, 2008

Sample ID: Matrix: Collect Date:

Soil

15-JUL-08 10:45-17-JUL-08

Receive Date: Collector:

Qualifier

Client

Result Uncertainty RL Units DF Time Batch Method DLAnalystDate

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

U 9.82E-06 +/-0.0299

0.0505

pCi/g

0.100

МЈН1 07/24/08 1031 775746

The following Prep Methods were performed

Time Prep Batch Method Description Analyst Date Dry Soil Prep GL-RAD-A-021 CXC1 07/18/08 1310 775221 Dry Soil Prep

The following Analytical Methods were performed

Analyst Comments Method Description EML HASL 300, 4.5.2.3

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-02C-7.5 Gamma 212150027

Soil

Matrix: Collect Date:

Qualifier

Receive Date:

15-JUL-08 11:00 17-JUL-08

Collector:

Client Result Uncertainty

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0174

.+/-0.0442

0.0697

DL

pCi/g

Units

RL

0.100

MJH1 07/24/08 1032 775746 1

Time Batch Metho

Report Date: July 30, 2008

TRCS00200

AnalystDate

TRCS002

Project: Client ID:

The following Prep Methods were performed

Description Analyst Time Prep Batch Date CXC1 Dry Soil Prep Dry Soil Prep GL-RAD-A-021 07/18/08 1310 775221

The following Analytical Methods were performed

Method Description **Analyst Comments**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 30, 2008

TRCS00200

TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

B-5-0.5 Gamma 212150028

Client Sample ID: Sample ID: Matrix: Collect Date:

Soil

15-JUL-08 14:20

Receive Date:

17-JUL-08

Collector:

Client

	Concetor.		Chent								
Parameter	Qualifier	Result	Uncertainty	DL	' RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight	Corrected"		1							
Cesium-137	U	0.0126	+/-0.0177	0.0337	0.100	pCi/g	N	1JH1 07/24/08	1043 7	75746	1
The following Prep	Methods were perf	ormed									(
Method	Description				Analyst	Date	Time	Prep Batch	l		
Dry Soil Prep	Dry Soil Pre	GL-RAD-	A-021		CXC1	07/18/08	1310	775221			
The following Ana	lytical Methods wer	e performed	i	•							

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-5-4.5 Gamma 212150029

Matrix: Collect Date:

Qualifier

U

15-ЛИС-08 15:45 17-JUL-08

Receive Date: Collector:

Client Result Uncertainty

Soil

AnalystDate

TRCS00200 TRCS002

Report Date: July 30, 2008

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

0.0196

+/-0.0432

0.0772

pCi/g

Units

Project: Client ID:

DF

MJH1 07/24/08 1043 775746

Time Batch Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/18/08	1310	- 775221	-

DĻ

RL

0.100

The following Analytical Methods were performed

The following it.	my wear weenous were performed		
Method	Description	Analyst Comments	
	<u> </u>		
	ENGLIDADE 100 4 5 2 2		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

212150030 Soil

Matrix: Collect Date:

15-JUL-08 16:25

B-1-0.5 Gamma

Receive Date: Collector:

17-JUL-08

	Conecior.		Client				··				· ·
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight (Corrected"							•		
Cesium-137		0.200	+/-0.0772	0.0553	0.100	pCi/g	N	/JH1 07/24/08	1048 73	75746	1
The following Pre	p Methods were perfo	rmed					•	•			(
Method	Description				Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/18/08	1310	775221			
The fellender Ann	Justical Machine de mone		,								4

The following Analytical Methods were performed

Method Description Analyst Comments

Project:

Client ID:

Report Date: July 30, 2008

TRCS00200 TRCS002

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-1-4.5 Gamma

Project: Client ID: TRCS00200 TRCS002

Report Date: July 30, 2008

Matrix:

212150031

Soil

Collect Date:

15-JUL-08 16:40

17-JUL-08

Receive Date: Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metl	hođ

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.00513 +/-0.0374

0.0625

pCi/g

0.100

MJH1 07/24/08 1055 775746

The following Prep Methods were performed

Method	Description	 Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/18/ 08	1310	775221

The following Analytical Methods were performed

Method	Description	Analyst Comments
	TD 67 171 07 1200 1 5 0 0	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-10-0.5 Gamma

Proiect: Client ID: TRCS00200 TRCS002

Report Date: July 30, 2008

Sample ID: Matrix:

212150032

Soil

16-JUL-08 08:00

Receive Date:

17-JUL-08

Collector

Collect Date:

	Conector:		Client					····			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis		:							,	
Gammaspec, Gamma	a, Solid "Dry Weight (Corrected"	•							•	
Cesium-137	U	0.0104	+/-0.0234	0.0413	0.100	pCi/g		МЈН1 07/24/08	1056 7	75746	1
:		•									(
The following Prep	Methods were perfo	rmed									
Method	Description			-	Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/18/08	1310	775221			
•											
The following Ana	lytical Methods were	performed	l								

Description **Analyst Comments** Method

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: . TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix: Collect Date:

B-10-4.5 Gamma

TRCS00200 TRCS002 Project: Client ID:

Report Date: July 30, 2008

212150033

Soil 16-JUL-08-09:05

Receive Date:

17-JUL-08

Collector:

Client

	Concetor.		Chem								
Parameter	Qualifier	Resul	t Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec	Analysis									٠.	
Gammaspec, Gamm	a, Solid "Dry Weight	Corrected"						,			
Cesium-137	U	-0.0147	+/-0:0371	0.0575	0.100	pCi/g		МЛН1 07/24/08	1110	775746	ł
											· ·
The following Prep	p Methods were pert	formed			*						

Method	Description Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/18/08	1310	775221

The following A	narynear Meinous were performen		
Method	Description	Analyst Comments	
1	EMI HASI 300 4523		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-8-0.5 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 30, 2008

Sample ID:

212150034

Matrix: Collect Date: Soil

16-JUL-08 09:30

17-JUL-08

Receive Date: Collector:

Client

Parameter Qualifier Result . Uncertainty RL DF DL Units AnalystDate Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.116 +/-0.0461 0.0444

0.100 pCi/g MJH1 07/24/08 1111 775746

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch CXC1 07/18/08 Dry Soil Prep Dry Soil Prep GL-RAD-A-021 1310 775221

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-8-4.5 Gamma 212150035

Soil

Matrix: Collect Date:

16-JUL-08 09:50

Receive Date: Collector:

17-JUL-08

Client

Parameter

Qualifier Result Uncertainty DL RLUnits DF AnalystDate

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.175 +/-0.0753 0.0602

0.100

МЛН1 07/24/08 1126 775746 1

Time Batch Method

Report Date: July 30, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method Description

Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

pCi/g

07/18/08

Analyst Comments

Date

Project:

Client ID:

Prep Batch

1310 775221

Time

The following Analytical Methods were performed

Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-18-0.5 Gamma 212150036

16-JUL-08 10:47

Matrix: Soil

Collect Date: Receive Date:

17-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method
			··						

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.0123 U

+/-0.0203

0.0376

0.100

pCi/g

Project: Client ID:

МЈН1 07/24/08 1201 775746 1

Report Date: July 30, 2008

TRCS00200 TRCS002

The following Frequency	Methous were persormed					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXCI	07/18/08	. 1310	775221	

The following Analytical Methods were performed

Method	Description	Analyst Comments
•	D3 67 Y74 G7 000 4 6 6 3	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-18-4:5 Gamma 212150037 .

Matrix: Collect Date: Soil

16-JUL-08 11:05 17-JUL-08

Receive Date: Collector:

Qualifier

Client

Parameter Rad Gamma Spec Analysis

Result

DL

0.100

RL

Time Batch Method

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137.

U -0.0132

+/-0.0313

Uncertainty

0.0509

pCi/g

Units

Project:

Client ID:

DF

МЈН1 07/24/08 1219 775746 1

Report Date: July 30, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXCI	07/18/08	1310	775221

The following Analytical Methods were performed

	That y steat the color were perior.	700
Method	Description	Analyst Comments
	<u> </u>	

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 30, 2008

Page 1 of 2

TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California

Mr. Moises Carvalho

Workorder:

Contact:

212150

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anl	st Date Time
Rad Gamma Spec Batch 775737		,							
QC1201625032 212150006 DUP Cesium-137		U 0.0259 +/-0.0261	·U	-0.000777 +/-0.0214	pCi/g	212		N/A MJ	H1 07/26/08 11:21
QC1201625033 LCS Americium-241	15.9			13.9 +/-1.67	pCi/g		87	(75%-125%)	07/26/08 11:22
Cesium-137	6.02			5.82 +/-0.410	pCi/g		97	(75%-125%)	
Cobalt-60	7.85			7.63 +/-0.687	pCi/g		97	(75%-125%)	
QC1201625031 MB Cesium-137			υ	0.0138 +/-0.0192	pCi/g				07/26/08 11:21
Batch 775746									. (
QC1201625057 212150026 DUP Cesium-137		U 9.82E-06 +/-0.0299	U	0.0217 +/-0.0361	pCi/g	200	•	N/A MJ	H1 07/24/08 13:02
QC1201625058 LCS Americium-241	15.9		•	13.3	pCi/g		84	(75%-125%)	07/24/08 13:02
Cesium-137	6.02			5.88 +/-0.451	pCi/g	٠	98	(75%-125%)	
Cobalt-60	7.85		•	7.72 +/-0.576	pCi/g		98	(75%-125%)	•
QC1201625056 MB Cesium-137			. U	0.00132 +/-0.0125	pCi/g				07/24/08 12:20

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder:

212150

Page 2 of 2

Parmnai	me ·	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anist	Date	Time
J	Value is estimated	•										
M	M if above MDC and less th	an LLD	*						•			
N/A	RPD or %Recovery limits d	o not apply.								•		٠.
ND	Analyte concentration is not	detected above the	detection lin	nit								
NJ	Consult Case Narrative, Dat	a Summary packag	e, or Project l	Manager o	oncerning t	his qualifi	er			*		
R	Sample results are rejected											
U	Analyte was analyzed for, b	ut not detected abov	ve the MDL,	MDA, or	LOD.							
UI	Gamma SpectroscopyUnce	ertain identification										
X .	Consult Case Narrative, Date	a Summary packag	e, or Project I	Manager o	oncerning t	his qualifi	er					
Y	QC Samples were not spiked	d with this compour	nd									
^	RPD of sample and duplicate	e evaluated using +	-RL. Conce	ntrations a	ire <5X the	RL. Qual	ifier Not A	pplicable for l	Radiochem	istry.		.*
h	Preparation or preservation h	nolding time was ex	ceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page of 5 Project 9: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		GEL Ch	nber: 21	2141	1212	T 20			51_	-						2040 Charle Phone Fax: (Savage eston, e: (843 843) 7	Roa SC 29) 556 66-11	9407 -8171 178	
Client Name: TRC			Phone #: V	115-1	644-7	3000	<u> </u>		Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾	(Fill	in the	numb	er of	contai	iners for each test)
Project/Site Name: \HBPP			Fax #: 4	15 -F	541-9	378	1	ld this ple be												< Preservative Type (6)
Address: 50 And 5t. Suite 579 Collected by: K.G.Wis Sample ID For composites - indicate start and stop date!	Send Result	Francisco Is To: mcar *Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmni)	tree	Pield	ļ	consi	TSCA Regulated	Total number of contain	1PH-A	Socz	GAM-17 Metals	C5-137				-			Comments Note: extra sample is required for sample specific QC
75-01c-1.0		7/15/08	8:20	G	MA	50	N		J	乂	X	Χ								
PS-01c-1.0 Gamma		,]	8:30						1.	·			X							•
PS-01c-4.0			8:40				\prod		2	X	X	X		•						:
15-01c-4.0 Ganna			8:40	П					١				人							
PS-01c-7.0			9:15			TT	П		9	人	X	入								
15-012-7.0 Gama	·		9:15				\prod	,	1				人				•			
8-3-1:0			9:35				П		2	入	X	人								
6-3-1.0 Gamma			9:35			Π	П	:	l	,			X							
B-3-4.0			9:50				\prod		2	X	X	X								
B-3-40 Gamma		V	9:50	V	V	J	1		1			,	人							
ENT Requested: Normal: Rush: X S Rumarks: Are there any known hazards ap	oplicable to	these sample			Ye t the ho		<u> </u>	<u> </u>	Ci	rele De	livera	blé: C				•		Samp East Cen Mou	le Coll tern	Level 3 / Level 4 ecilon Time Zons Pacific Other
leet name had By (Signed) Date Tim		Received by (γ .	Date	Time			GEL	PM:	E	<u> </u>	<u> </u>		ley						
have Mills 7/16/08	13:00	· hle	sorler	7-1	708	09	<u>سر</u>			hipmen						Date	Shippe	:d:	7/16	/08
0		2		•				Airbil	ii #:							-				
		3						Airbil	11 #:										1	
A proposed of stody Number = Client Determined A Octoble. N = Normal Sample, TB = Trip Blank, FD = File to Find Felix of: For liquid matrices, indicate with a - Y - for A Matrix Codes: DW=Drinking Water. GW=Groundwater, S Isospecial visual statement of the Action of Sample Aralysis Requested: Analytical method requested (The Laws of Type: HA = Hydrochloric Acid, NI = Nitric Actions of the Action of Sample	yes the sample water W=Surface Water i.e. 82608, 60101	as field filtered or - I r, WW=Waste Wate B/7470A) and numb	N - for sample wa r. W=Water, SO er of containers p	as not liele -Soil, SD provided fo	d tiltered. =Sediment or each (i.e	. SL=Sludg . <i>8260B -</i> .	ge, SS=S: 3, <i>6010B</i>	olid Was 7470A -	ste, O=0 - 1).)il, F=Fi	lter, P=	Wipe, t	j=Urine				·		F	Custody Seal Intact? YES NO Cooler Temp:

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

GEL Quote #:	GEL Ch		Cus	stod	y an	d A	nal	lyti	cal	Re	qu	est		2040 Charl	Laborato Savage F eston, SC 2: (843) 5 843) 766	Road 29407 56-817	
Client Name: TPC		Phone #: \	415 -	644-	3000	}		Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾ (F	ill in the	numbe	ofcon	tainers for each test)
Project/Site Name: HBPP		Fax #: 41	5-5	41-0	378		ild this	iners									< Preservative Type (6)
Address: 55 and St, Suite 575, San F	Tancisco,	CA 9L	1105				ple be dered:	conta			Metads						
Collected by: K. Gillis Send Result	s To: mcar	t-00-110	4.29	so it			g	ber of	اسد	~	₹	7					Comments Note: extra sample is
Sample ID * For composites - indicate stort and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Milltary) (hhmm)	QC Code	Field	Sample Matrix ^P	activ	TSCA Regulated	Total number	ります	Suocs	CAM-17	25-13					required for sample specific QC
B-2-1.0	7/15/08	13:50	6	AN	50	N		Э	X	X	Х						
B-2-1.0 Gamma		13:50						1				X					
B-2-40		14:20						2	X	人	X						·
B-2-4.0 Gamma		14:30				\prod		1				X					
8-2-7.0		14:30				\prod		2	人	X	Х						,
B-2-7.0 Ganna		14:30						1				X					
B-6-1.0		15:15				TT		2	X	X	X						
8-6-1.0 Gamma		15:15		1	11	TT		1				×					· ·
B-6-4.0		15:20				\prod		a	X	/	X						
B-6-4.0 Gamma		15:20	V	I	1	1	1	1				X					
TAT Requested: Normal: Rush: \ Specify: 46 \ Remarks: Are there any known hazards applicable to All metals were field filtered	these samples	erge) Fax R	esults: case lis	Yest the h	s / nzards	(₩	Ci	rcle D	eliver	able:	C of A	/ QC	Summary			Collection Time Zone Other in
Chain of Custo							1					San	ple Shi	pping a	nd Deliv	ery De	tails
Relinquished By (Signed) Date Time	Received by (s	·/. / /	Date	Tim		سر ر	_	PM:			_	tan)	€ ∀		61.	-	16/08
hule Hillis 7116/08 13:00	1 the K	of the	1-//	1-08	09	<u> </u>			Shipme	nt:	-ed	Lex		Date	Shipped	<u>:</u>	116100
3	3						Airb	iii #: iii #:									
1.) Chain of Custody Number * Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, El 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample w 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Wate 5.] Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010	ras field filtered or - f r. WW=Waste Water B/7470A) and numbe	V - for sample w r. W=Water, So er of containers	ras not fie D=Soit, St provided	ld filtered. D=Sedimer	ı, SL=Slud	ge, SS=	plicate S Solid Wr	ample, C					e, F=Fecal,	N=Nasa!			Far Lab Receiving Use Only Custody Seal Intact? YES NO Coofer Temp:

dil Ande e	GEL Ch		Cu	stoc	ly an	d A	Ana	lyti	ical	Re	equ	est		2 (7	2040 S Charle Phone	Labora Savage eston, :: (843	e Road SC 29) 556-	9407 -8171	
Client Nume: TRC		Phone #: 1	115-1	644-	०००		Sample Analysis Requested (5) (Fill in the number of containers for each ter									iners for each test)			
Project/Site Stame: 148PP		Fax#: 4	5-5	41-0	1378	Sho	uld this	ners											< Preservative Type (6)
Address: 55 and St., Suite 575, S							iple be idered:	1 -			至								·
	lts To: mcan					\dagger	7	7 %			Metals	7							Comments Note: extra sample is
Sample ID For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Cod	Field	- [Ğ İğ	TSCA Regulated	Total number	D-401	SUBCS	CAM-17	C5-137							required for sample specific QC
8-6-7.0	7115/08	15:35	6	MA	1 50	N		2	X	X									
B-6-7.0 Gama		15:35		1	1			1				X							
B-11-1.0		16:10		\prod		\prod		2	×	メ	人								· · · · · · · · · · · · · · · · · · ·
B-11-1.0 Gamma	1	16:10		17		\prod		1				乂							
B-11-4.0		16:30		17				2	X	X	Χ								
8-11-4.0 Gamma		16:30	\prod			11		1				X							
B-11-7.0		16:55				П		2	X	X	X								
B-11-7.0 Gamma		16:55				\prod		11				X							
B-4-1.0	\$7/1Wa					11		2	入	メ	Х								
8-4-1.0 Gamma	7711616	7:50				J		1				X							
are a final part of the contract of the contra	hr. (Subject to Surch			Y	es /		B	C	ircle D	elivera	ıble: (of A	/ QC	Sum	nary	/ Lc	vel l	/ 16	ŒD / Level 3 / Level 4
Remarks: Are there any known hazards applicable to All metals were freld filter	o these samples	? If so, ple	ease lis	t the h	azards												Easte Cent	em	ection Time Zone Cacilic Other
Chain of Cust				701									ple Sh	ippin	g an	d Deli	ivery	Detail	s
Accompaished By (Signed) Date Time	Received by (si	gned)	Date	Tim	c	٠	GEI	PM:	E	rin	ح	star	ley	 ,					
Me Hillis 7/16/08 13:00	1. Mle 1	and the	7-1	208	09	KS	Meth	od of S	hipmer	u: F	ed	×			Date S	Shippe	:d:	7/	16/08
	2						Airb												
3 Class of Custody Number = Client Determined]3		`				Airb	iil #:										F.	or Lab Receiving Use Only
> DC (odes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, E ode Filtered: For liquid matrices, indicate with a - Y - for yes the sample of the Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water Codes: DW=Drinking Water Codes: DW=Dri	was field filtered or - N er, WW=Waste Water, 0B/7470A) and number nt Hydroxide, SA = Su	- for sample w., W=Water, SG r of containers p Ifuric Acid, AA	as not fiel r=Soil, SE provided f ≈ Ascorb	d filtered. ≔Sedime: or cach (í.	nt, SL=Slud e. <i>8260B</i> - IX = He ⁻	gc, SS=8 3, 60/01	Solid Wa	stc. O=(- 1). Thiosulfi	Oil, F=} ï	ilter. P=	Wipe, l	J≖Urine				· .			Custody Seal Intact? YES NO Cooler Temp:

iEL Quote #:	GEL Ch		Cus	stody	and	d A	nal	lyti	cal	Re	qu	ęst		1	2040 S Charle Phone:	aborat lavage ston, S (843)	Road C 294 556-1	407 8171	
Client Name: TRC.		Phone #: 4	115-6	44-30	000			Sam	ple A	nalys	is Re	quest	cd ⁽⁵⁾	(Fill i	n the	ոստե	er of	contai	ners for each test)
Project/Site Name: HBPP		Fax #: 4	15-5	41-9	378		d this	iners											< Preservative Type (6)
Address: 55 2nd St., Suite 575, San	Francisco	CA 9	410	3			de be dered:	containers			Netak								
Collected by: Send Resi							ğ	er of				({	1	{		1	Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code		Sample Matrix (4)		TSCA Regulated	Total number	17-H9T	50015	CAMAD	(5-13							required for sample specific QC
B-4-4.0	7/16/08	8:10	6	AV	50	N		٦	X	Х	¥								
B-4-4.0 Gamma		8:10						1			34	X							
P5-06c-0.5		8,40					<u> </u>	2	人	×	X	1]					
PS-00c- 0.5 Gamma		8:40				Ш	}	1				×							
P5 706c-2.0		8.50						3	人	X	X				,				
85-06c-2.0 Gamma		8:50				\prod		\				×							
P5-06c-6.5		9:20				\prod		2	X	X	X								
P5-06 -6.5 Camma		9:30						1				X							·
B-13-1.0		10:00		T		Π		3	7	人	X								
B-12-1.0 Gamma		10:00		1	1	IJ	,	1				×							·
	V (Subject to Sure)	nege) Fax R	esuits:	Ye	, /	· /	6)	C	ircle D	eliver	able:	C of A	10	C Sun	ımary	/ Le	vel 1	/ C e	ver2 / Level 3 / Level 4
TAT Requested: Normal: Rush: X Specify: 47 Remarks: Are there any known hazards applicable All metals were field filter	to these sample.	s? If so, pl	ease lis	st the ha	zards								,				Samp East Cen	ole Col tern	lection Time Zone Recit Other
	tody Signatures	- 6	Det	Ti.									nple S		ng an	d Del	ivery	Detai	ils
Relinquished By (Signed) Date Time	Received by (Y .	Date	Time			GEI	PM:					Ney						
lyle 13th 7/16/08 13:00	Male	who -	_7-/	2-58	09	45		`	Shipme	nt:	2 de	2×		-	Date	Shippe	d:	7/14	,/08
2	2			 -			Airb												
1.) Chain of Custody Number = Client Determined							Airb						·					,	For Lab Receiving Use Only
 OC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate. Field Filtered: For liquid matrices, indicate with a - V - for yes the sample. Matrix Codes: DW-Drinking Water. GW-Groundwater, SW-Surface Water. 	e was field filtered or - later, WW=Waste Wate	N - for sample v er, W=Water, S	vas not fic O≖Soil, S	ld filtered. D=Sedimen	ı. SL=Slud	gc. SS=!	iolid Wa	sic. O=	•				ıc, F≖Fec	.:al, N=1	Vasul		,		Custody Seal Intact? YES NO
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B. 6) 6.) Procervative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Soc			A = Ascor		X = Hexan			Thiosul	fate, if n			is added	≈ lcave	iield bla	mk				Cooler Temp;

Li Quote ii.	GEL Cha		Cu	stod	y an	d A	nal	lyti	cal	Re	qu	est			GEL L 2040 S Charle Phone Fax: (8	Savage ston, S : (843)	Road SC 29	d 9407 -8171	
hent Name: TRL	1	Phone #: 4	115-6	44-30	000			Sam	iple A	nalys	is Re	quest	ed ⁽⁵⁾	(Fill	in the	numb	er of	contai	iners for each test)
iojeci/Site Na me: HBRP		Fax #: \ 1	5-54	11-93	78		ıld this	iners											< Preservative Type (6)
diress 55 and Sty Swite 575, San F							ple be dered:	container			N SEC								
offected by 15. Gillis Send Result	s To: mcarvo	Uba @	tres	utime	/ 000		fed	er of				_					ļ		Comments Note: extra sample is
Sample ID For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Cod	c Field	Sample Matrix (4)		ISCA Regulated	Total numb	JOH-D	Svecs	T1-W45	(5-137				ļ	·		required for sample specific QC
B-12-4.0	7/16/56	10:15	G	MA	50	N		2	X	X	X				•				
13-12-4.0 Gamma	·	10:15		1	1	1		1				人							
B-32-1.0		10:40						رع	X	X	X								
B-32-1.0 Gamma		10:40				П		1				Κ							
B-3 2-4.0		1/100				П		3	X	X	X								
B-32-4.0 Gamma		11,00						1				X							
B-32·8.0		11:40				\prod		2	X	X	X								
B-32-8.0 Gamma		11:40		1	J	\prod		1				X							
8-6-6W		7:55		Y3E	600			3	X	X	Х								
B-3-6W	7115/08	10: 90	V	1	GW	V		3	火	Х	X								
IA! Requested: Normal: Rush: X Specify. 15 M	(Subject to Surchar	ge) Fax Re	sults:	Yes	- 1	(8))	Ci	rcle De	elivera	ble; (of A	/ QC	Sum	ımary	/ Le	vel i	/ KE	2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to			ase lis	t the ha	zards								· · · · ·	-	_		Easte Cent Mou	ern ral	ection Time Zone Other
Chain of Custoo												Sam	ple Sh	ippi	ig and	Deli	very	Detail	s
techniquished By (Signed) Date Time	Received by (sig	//	Date	Time			GEL	PM:	£	<u> </u>	<u> </u>	tan	RY						
Me Hillix 7/16/08 13:00	· fule 5	alex	7-1	7-08	094	<u>es_</u>	Metho	d of SI	ilpmen	" F	ede	<u> </u>			Date S	hipped	d: 1	1/16	108
<u> </u>	2			· · ·			Airbil												
1) Chancat Contody Number = Client Determined 2.1 (2) Chancat Contody Number = Client Determined 3.1 (2) Chancat Filter Sample Sample, TB = Trip Blank, FD = Field Duplicate, EB 4.1 and Filtered: Far liquid matrices, indicate with a = Y = for yes the sample with Mark Coden: DW=Drinking Water, GW=Groundwater, SW=Surface Water 3.3 Sungle Analysis Requested: Analytical method requested (i.e. 8260B, 6610I) 3.4 these Canto Type: Il — Sydrochlorie Acid, NI = Nitric Acid, SH = Sodium	is field filtered or - N - , WW=Waste Water, V 5/7470A) and number o	for sample wa W=Water, SO of containers p	s not field Soil, SD rovided fo	l filtered. =Sediment, or each (i.e.	SL=Sludge <i>8260B</i> - 3,	. SS=Se . 6010B	olid Was /7470A:-	nple, G e, O=0 1).	il. F=Fi	iter, P=\	Wipe, L	J≖Urine.						Fo	Custody Seal Intact? YES NO Cooler Temp:

GEL Quote #:	GEL Cha	ber:	, -			r	al								204 Cha Pho Fax	0 Sava irlesto one: (8 :: (843	orator age Ro n, SC 43) 5:	oad 2940 56-81 -1178	07 71 3	
Client Name: TRC		Phone #: (415	644 -	3000			Sam	ple A	naly	is R	eque	sted (⁵⁾ (Fi	ll in t	he nu	mber	of co	ontair	ners for each test)
Project/Site Name: HBPP		Fax #: (4	15)5	41-	1378	Should sample		containers	Now	LWD3	Now									< Preservative Type (6)
Address: 55 2nd st., Suite 575, San	Francisco,	CA.	941	05		conside		conta		SYS.										Community
	s To: mcari				ons-co		Ē.	ber of	4	Ž		7								Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected	*Time Collected (Military) (hhmm)	QC Code	Filered (3)	Sample Matrix "	Radioactive	TSCA Regulated	Total number	TPH-d	CAM-17 metals	Syloce		212							required for sample specific QC
B-1-9W	07/15/08		4	Y	W			3	X	X	X									
PS-02C-0.3		1020	1	NA	5			2			1									
PS-02C-4.5		1045			1			١												<u> </u>
PS-02C-7.5		1100					_		V	\downarrow	V									
PS-02C-0.3 gamma		1020						1				X								
PS-02C-4.5 gamma		1045																		
PS-02C-75 gamma		1100						1				1								
B-5-0.5		1420						2	X	X	X									
B-5- 4.5		1545						1	\geq	X	X									
B-5-0.5 gamma	V	1420	1	1	1			1				\geq	4							
TAT Requested: Normal: Rush: X Specify: 48)	(Subject to Surcha	rge) Fax R	esults:	Yes	,	No		CI	rcle D	eliver	able:	C of	<u>A</u> /	QC S	umma	iry /				vel 2 / Level 3 / Level 4.
Remarks: Are there any known hazards applicable to * Metals are Field Fil-	these samples	2 If so ple		st the ha	zards												E	imple Easter Centra Moun	rn al	Cacifil Other
Chain of Custo	dy Signatures											Sa	mple	Ship	ping	and I	Delive	егу [Detail	s
Relinquished By (Signed) Date Time	Received by (s	igned)	Date	Time			GEL	PM:	E	nin	S	tun	Les							
mho 18lnd 7/16/08 1500	The	Inlus	- 7-	17-58	09	_ [od of S		- 4	Fed	ć	X		D:	ate Shi	ipped:	7	-]10	0/08
2	2						Airbi	II #:												
3	3						Airbi	II #:										 -		
 Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, E Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample v Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010 f). Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodius 	vas field filtered or - N er, WW=Waste Water 08/7470A) and numbe	l - for sample w . W=Water, So r of containers	ras not fie D≈Soil, SI provided	ld filtered. D≖Sediment tur each (i.e	. SL≈Slud . 8260B -	ge, SS=Sol 3, 6010B/7	id Wa: 4704	stc. O=:	Oil, F≈l	Filter, P	=Wipe	U≃Uı				ıl			F	Custody Seal Intact? YES NO Cooler Temp:

Page. 2 of 3 Project #: 161072 GEL Quote #: COC Shimber (1): PO Number: 161072	GI GEL Work O		ain of	Cu	stod	y and	d A	na	lyti	cal	Re	equ	est		204 Cha Pho	L Labo O Sava arlestor one: (84 :: (843)	ige Ro n, SC 2 13) 550	19407 5-8171	
Client Name: tec			Phone #:	415)	644-	3000			San	iple A	Analys	sis Re	quest	ed ⁽⁵⁾ (Fill in t	he nun	nber o	fconta	iners for each test)
Project/Site Name: HBPP		-	Fax #: <u>4</u>	15) 9	541-	1378		ld this	iners										< Preservative Type (6
Addices 55 and st., Suite 5	75, San F	rancis	io, CA	, 94	105			ple be dered:	conta		2) #								
	Send Results To					nsam		g g	er of	ہے	4		37						Comments Note: extra sample is
Sample ID 'For composites - indicate start and stop date!		ate Collected	*Time Collected (Military) (hhmm)	QC Code	Filtered (1	Sample Matrix ⁴⁴⁾	Radioactive	TSCA Regulated	Total number of containers	Hat	CAM-17mtb	SVDCs	Cs -1						required for sample specific QC
B-5-4.5 gamma	PO	15 08	1545	G	NA	S	2						X						
B-1-0,5			1625	1					2	X	X	X							
8-1-4.5			1640				П		2	X	X	X							
8-1-0.5 gamma			1625						l				X						
B-1-4.5 gamma		V	1640	V	T	V			1	·			X						
8-10-0.5	7	16/08	D80D	\		1	П		2	V	X	X							
B-10-4.5		1	0905						2	X	X	X							
B-10-0.5 gamma			0800						1				X			1			
B-10-4.5 gamma		J	0905	T	T	T							V						
B-8-0.5		J	0930	J	I	I	V		2	X	X	X							
TAT Requested: Normal: Rush: X S	pecify: 48hV (s	bject to Surch	arge) Fax Res	ults:	Yes	. 1	N	9	Cir	rcle D	elivera	ble: C	ofA	/ QC	Summar	ry / L	Level i	/ (Le	vel 2 / Level 3 / Level 4.
Remarks: Are there any known hazards ap	pplicable to the	se samples	? If so, plea	ase lis	t the haz	zards		<i></i>									Sam Eas Cer		ection Time Zone (acifid Other
Cha Relocatished By (Signed) Date Time	in of Custody S	<u> </u>	·	ate	Time			ļ							pping a	nd De	livery	Detai	ls
	li i	eceived by (si	Pred)	ate	lime		≠ .	GEL	PM:	٤١			ule	/					
Male held 7/16/08	1500 1	hle	Jules		-/7 ਹ ਿ	7 09	KS	Metho	d of SI	hipmen	it: F	ed	<u>' رجع</u>		Dat	e Shipp	ed:	7/1	6/08
	2							Airbil								·			
Continue of Custody Number = Client Determined 2	yes the sample was fiel W=Surface Water, WW	i filtered or - N -Waste Water	- for sample was W=Water, SO=	not field Soil, SD	filtered. Sediment,	SL=Sludge	. SS=So	olid Wası	nple, G e, O≃O			·		F=Fecal.	N=Nasal			F	or Lab Receiving Use Only Custody Seal Intact? YES NO
2.) Sample Analysis Requested: Analytical method requested (in a street return varive Type; HA = Hydrochloric Acid, NI = Nitric Acid, NI =		oxide, SA = Su	lfuric Acid, AA =	Ascorbi		- Hexane,			niosulfat		přeserva CLIEN		added ≠	leave field	i blank				Cooler Temp:

GEL Quote #:	GEL Chark Order Num		Cus	stody	and	d A	nal	yti	cal	Re	equ	est		2040 Char Phon	Labora Savage fleston, ne: (843)	e Road SC 294) 556-8	407 3171	
Client Name: TRL		Phone #: ((415)	644-	300D			Sam	ple A	nalys	sis Re	queste	d ⁽⁵⁾ (F	ill in th	e numt	ber of o	contai	ners for each test)
Project/Site Name: HBPP		Fax #: 4	15)5	11-6	1378	Shoul	d this	containers		يد								< Preservative Type (6)
Address: 55 2nd St., Suite 575, San Fi	ancisco, CA	9410	5			consid	- 1	cont		metak								C
	ilts To: MCari			lutions	,014		Đ.	ber of	Z			37						Comments Note: extra sample is
Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered ⁽²⁾	Sample Matrix ¹⁴		TSCA Regulated	Total number	TPH-L	CAMF17	SVOCS	65-1						required for sample specific QC
B-8-4.5	7/16/08	0950	6	NA	S	7		2	X	X	X							
B-8-0.5 gamma		0930				Ш		1_				X						·
8-8-4.5 gamma		0950		1	1	Ш		1				X						
B-18-0.5		1047		1	1			2	X	X	X							· -
B-18-4.5		1105						2	X	∇	X							
B-18- D.5 gamma		1047				\prod		1				X						
B-18-4.5 gamma	1	1105	1	U	T	V		1				X						
J. J. J. S.								,										si.
				1	1													
						\top												
TAT Requested: Normal: Rush: X Specify: 48	(Subject to Surch	rena) Fax R	egulte.	Yes	. /	N N	ີ່ລ	Ci	rcle D	eliver	able: (C of A	/ OC	Summar	v / L	evel 1	/ Cer	vel 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable All metals are Field Fil	to these samples	? If so, ple	ease lis				.									Samp Easte Cent	le Colle ern	Pacific Other
	tody Signatures						$oxed{oxed}$					Sam	ple Shi	pping a	nd De	livery	Detai	ls ·
Relinquished By (Signed) Date Time 1 7 The All 7 16 08 1500	Received by (s	igyed)	Date 7-	Time 77-58	٠, ,	7KS	. 1				St	an le Ex	Y	Dat	te Shipp	ed:	7/10	0/08
2	2	Price					Airb											
3	3	·					Airb										·	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the samp 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface V 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B. 6 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Soc	e was field filtered or - l ′ater, WW≖Waste Wate 110B/7470A) and numb	Y - for sample w r. W=Water, St er of containers	ras not fiel O=Soil, SI provided A = Ascort	ld filtered. D≃Sedimen for each (i.e oic Acid. H	i, SL=Slud . <i>8260B -</i>	e. SS=8 3. 6010L	iolid Wa 3/7470A	iste, O= - I). Thiosulf	Oil, F=l	Filter, F	'≃Wipe. rvative i	U≕Urine					F	or Lah Receiving Use Only Custody Seal Intact? YES NO Copler Temp: C

YELLOW = FILE

WHITE = LABORATORY



SAMPLE RECEIPT & REVIEW FORM

ent: TRC				SDG/ARCOC/Work Order: 212141, 212150, 212151
eived By:				Date Received: 7-17-08
pected Hazard Information	Yes			Counts > x2 area background on samples not marked "radioactive", contact adiation Safety Group of further investigation.
rked as radioactive?	1			imum Counts Observed*: Cfm 30
ssified Radioactive II by RSO?			1	
rked containing PCBs?		/		
oped as a DOT Hazardous?		<u></u>	Haza	ard Class Shipped: UN#:
ntified as Foreign Soil?		V	L	
Sample Receipt Criteria	Yes	₹ Z	°Z	Comments/Qualifiers (Required for Non-Conforming Items)
Shipping containers received intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
Samples requiring cold preservation within (4 +/- 2 C)?	/			Preservation Method: (ice bags blue ice dry ice none other (describe)
Chain of custody documents included with shipment?	/			
Sample containers intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other (describe)
Samples requiring chemical preservation at proper pH?	/			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
VOA vials free of headspace (defined as < 6mm bubble)?		/		Sample ID's and containers affected:
Are Encore containers present?			V	(If yes, immediately deliver to Volatiles laboratory)
Samples received within holding time?	/			Id's and tests affected:
Sample ID's on COC match ID's on bottles?	/			Sample ID's and containers affected:
Date & time on COC match date & time on bottles?	/			Sample ID's affected:
Number of containers received match number indicated on COC? (11)	1		V	Sample ID's affected: **X See Reland
Itelinguisned leceived accuous.	V			OAL CONTRIAS
FX 8647 147 7955 176	72	7.5 7.3	18	7 4c
	Shipping containers received intact and sealed? Samples requiring cold preservation within (4 +/- 2 C)? Chain of custody documents included with shipment? Sample containers intact and sealed? Samples requiring chemical preservation at proper pH? VOA vials free of headspace (defined as < 6mm bubble)? Are Encore containers present? Samples received within holding time? Sample ID's on COC match ID's on bottles? Date & time on COC match date & time on bottles? Number of containers received match number indicated on COC? COC form is properly signed in relinquished/received sections?	pected Hazard Information rked as radioactive? ssified Radioactive II by RSO? rked containing PCBs? pped as a DOT Hazardous? ntified as Foreign Soil? Sample Receipt Criteria Shipping containers received intact and sealed? Samples requiring cold preservation within (4 +/- 2 C)? Chain of custody documents included with shipment? Sample containers intact and sealed? Samples requiring chemical preservation at proper pH? VOA vials free of headspace (defined as < 6mm bubble)? Are Encore containers present? Samples received within holding time? Sample ID's on COC match ID's on bottles? Number of containers received match number indicated on COC? COC form is properly signed in relinquished/received sections?	pected Hazard Information rked as radioactive? ssified Radioactive II by RSO? rked containing PCBs? pped as a DOT Hazardous? ntified as Foreign Soil? Sample Receipt Criteria Shipping containers received intact and sealed? Samples requiring cold preservation within (4 +/- 2 C)? Chain of custody documents included with shipment? Sample containers intact and sealed? Samples requiring chemical preservation at proper pH? VOA vials free of headspace (defined as < 6mm bubble)? Are Encore containers present? Samples received within holding time? Sample ID's on COC match ID's on bottles? Date & time on COC match date & time on bottles? Number of containers received match number indicated on COC? (pl. 1) pl. 10 pl. 1	pected Hazard Information pected Hazard Information pected Hazard Information pected Hazard Information pected Hazard Information pected Secretary pected Radioactive? pected Radioactive? pected Radioactive II by RSO? pected as a DOT Hazardous? pected as a DOT Hazardous? pected as Foreign Soil? Sample Receipt Criteria Shipping containers received intact and sealed? Samples requiring cold preservation within (4 +/- 2 C)? Chain of custody documents included with shipment? Sample containers intact and sealed? Samples requiring chemical preservation at proper pH? VOA vials free of headspace (defined as < 6mm bubble)? Are Encore containers present? Sample ID's on COC match ID's on bottles? Date & time on COC match date & time on bottles? Number of containers received match number indicated on COC? Quis and the Radioactive? Number of containers received match number indicated on COC? COC form is properly signed in retinquished/received sections?

List of current GEL Certifications as of 30 July 2008

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	. 42 D09 04046
California – NELAP	01151CA
Colorado	. GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	. WG -15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	2000 29
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	030 46
Maryland	270
Massachusetts	M-SC012
Nevada	SC 00 012
New Jersey - NELAP	SC002
New Mexico	FL NELAP E87156
New York - NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania - NELAP	6 8-00 485
South Carolina	10120 001/1 0120002
Tennessee	TN 0 2934
Texas - NELAP	T10470 4235 -07B-TX
U.S. Dept. of Agriculture	S- 52 597
Utah - NELAP	GEL
Vermont	VT 87 156
Virginia	00151
Washington	C1641



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

July 31, 2008

Mr. Moises Carvalho TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California 94105

Re: Humboldt Bay NPP Project 161072, Task 2400

Work Order: 212233

Dear Mr. Carvalho:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 18, 2008. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stanley

Project Manager

Purchase Order: GELL-071408-001

Enclosures

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

TRCS002 TRC Solutions

Client SDG: 212233 GEL Work Order: 212233

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Erin Staules
Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 31, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

EML HASL 300, 4.5.2.3

B-34-1.0 Gamma 212233001

Sample ID: Matrix:

Soil

Collect Date:

16-JUL-08 14:10

Receive Date:

18-JUL-08

	Collector:		Client								,
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis		,								
Gammaspec, Gamma	a, Solid "Dry Weight C	orrected"			•						
Cesium-137	U -0	0.00795	+/-0.0235	0.0372	0.100	pCi/g	· • • • • • • • • • • • • • • • • • • •	1JH1 07/28/08	1531 7	75743	1
The following Prep	p Methods were perfor	rmed							· . n		. (
Method	Description				Analyst	Dațe	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep (GL-RAD-	A-021	,	CXC1	07/21/08	1540	775720			
The following Ana	lytical Methods were	performed									
Method	Description					Analyst Comm	onte				

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-34-4.0 Gamma

212233002

Matrix:

Soil

Collect Date:

16-JUL-08 14:25

Receive Date:

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0176

+/-0.0282

0.0437

pCi/g

Project:

Client ID:

МЛН1 07/28/08 1532 775743 ; 1

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Pren Methods were performed

The following I I	ep memous were performed		·	·: · · · · · · · · · · · · · · · · · ·	
Method	Description	Analyst	Date	Time Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540 775720	

The following Analytical Methods were performed

- 10110111115 111	mary ricus Michigas were personned			
Method	Description	•	Analyst Comments	
1	FMI HASI 300 4 5 2 3			

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 31, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: B-34-8.0 Gamma

212233003

Soil

Matrix:

16-JUL-08 14:35

Collect Date:

EML HASL 300, 4.5.2.3

Receive Date:

18-JUL-08

Collector:

Client

	Concetor.		Chent				•			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF .	AnalystDate	Time	Batch Met
Rad Gamma Spec	Analysis									
Gammaspec, Gamma	a, Solid "Dry Weight C	Corrected"								
Cesium-137	·U	0.0108	+/-0.0384	0.0656	0.100	pCi/g	M	IJH1 07/28/08	1532 7	75743 1
The following Prej	p Methods were perfo	rmed	•							
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/21/08	1540	775720		
The following Ana	lytical Methods were	performed	1							
Method	Description				•	Analyst Comm	ents			-

2040 Savage Road Charleston SC 29407 ~ (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

PS-23AC-1.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 31, 2008

Sample ID: Matrix:

212233004

Soil

16-JUL-08 15:30

Collect Date: Receive Date:

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metho	ΣĊ
D-1C - C - + 1-1-										_

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.00992

+/-0.0426

0.0701 0.100 pCi/g

МЈН1 07/28/08 1533 775743

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720	

The following A	nalytical Methods were pe	r tot med
Method	Description	Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

PS-23AC-4.0 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 31, 2008

Matrix:

212233005

Soil

16-JUL-08 15:45 18-JUL-08

Receive Date: Collector:

Collect Date:

	Concetor.		Chent							
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Bate	h Method
Rad Gamma Spec A	nalysis									
Gammaspec, Gamma,	, Solid "Dry Weight C	Corrected"								
Cesium-137	້ ປັ່ງ. ເ	0.00902	+/-0.0335	0.059	0.100	pCi/g		MJH1 07/28/08	1656 775743	3 1
						· -		46		

The following	Prep 1	Methods	were	performed

Method	Description	Analyst	Date	Time	Prep Batch	. (
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720	

The following A	maryuca	ai Methous were periorined	
Method	1	Description	Analyst Comments
1		EMI, HASI, 300, 4.5.2.3	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-26-1.0 Gamma

212233006

Soil

Matrix:

Collect Date:

16-JUL-08 16:05

Receive Date:

Collector:

18-JUL-08 Client

Parameter	Qualifier	Result	Uncertainty	\mathbf{DL}	RL	Units	DF	AnalystDate	Time	Batch Method
					·					

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.109 +/-0.0494 0.0541

0.100

pCi/g

Project:

Client ID:

МЛН1 07/28/08 1657 775743 . 1

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

Method		Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	,	Dry Soil Prep GL-RAD-A-021	CXC1	· 07/21 /08	1540	775720	

The following Analytical Methods were performed

Method	Description		Analyst Comments	
]	EML HASL 300, 4.5.2.3			

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-26-4.0 Gamma

212233007

Sample ID: Matrix:

Soil

Collect Date: Receive Date:

Qualifier

16-JUL-08 16:20 18-JUL-08

Collector:

Client

Parameter

Result Uncertainty

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

1

-0.00252

+/-0.0228

0.0375

DL

0.100pCi/g

RL

МЈН1 07/28/08 1657 775743

Time Batch Method

Report Date: July 31, 2008

TRCS00200 TRCS002

AnalystDate

The following Prep Methods were performed

Method

Description Dry Soil Prep

Dry Soil Prep GL-RAD-A-021

Analyst CXC1

Date 07/21/08

Analyst Comments

Units

Time Prep Batch

1540 775720

Project:

Client ID:

The following Analytical Methods were performed

Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

B-25-1.0 Gamma

Sample ID:

212233008

Matrix:

Soil

Collect Date:

17-JUL-08 08:20

Receive Date:

18-JUL-08

Collector:

Client

			,		 					
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.00189

+/-0.0375

0.0647

0.100

pCi/g

Project:

Client ID:

MJH1 07/28/08 1658 775743

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date Tin	ne Prep Batch	,
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21 /08 15	40 775720	

The following Analytical Methods were performed

1 110 10110 11115 7111	arytical Michigan Mere periorit	cu .
Method	Description	Analyst Comments
		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

1

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

EML HASL 300, 4.5.2.3

B-25-4.0 Gamma

Project:

Client ID:

TRCS00200 TRCS002

Report Date: July 31, 2008

Matrix:

Collect Date:

212233009

Soil

17-JUL-08 08:45 18-JUL-08

Receive Date: Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis										
Gammaspec, Gamma	a, Solid "Dry Weight (Corrected"									
Cesium-137	U	-0.0141	+/-0.0177	0.0276	0.100	pCi/g		млні 07/28/08	1658 7	775743	. 1
The following Prep	Methods were perfo	rmed	,								
Method	Description				Analyst	Date	Time	Prep Batch			,
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021	<u> </u>	CXCI	07/21/08	1540	775720			
The following Ana	lytical Methods were	performed	,		•						
Method	Description				1	Analyst Commo	ents				

2040 Savage Road Charleston SC 29407 ~ (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-22-1.0 Gamma

212233010

Matrix:

Soil

Collect Date:

Qualifier

17-JUL-08 09:00

Receive Date:

18-JUL-08

Collector:

Client

P	ar	am	eter	

Result Uncertainty

RL

0.100 -

Units

Project:

Client ID:

DF AnalystDate Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Dry Soil Prep

0.0421

+/-0.0333

0.0636

DL

pCi/g

Date

МЈН1 07/28/08 1658 775743

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

The lone wing	rep Menious were perior
Method	Description

Dry Soil Prep GL-RAD-A-021

Analyst CXC1 Time

1540

Prep Batch

775720

The following Analytical Methods were performed

Method

Description

Analyst Comments

07/21/08

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-22-4.0 Gamma

212233011

Matrix:

Soil

Collect Date:

17-JUL-08 09:20

Receive Date: Collector:

18-JUL-08 Client

Parameter

Qualifier

Uncertainty RLDL

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Dry Soil Prep

U 0.00994

+/-0.0555

Result

0.0975

0.100

pCi/g

Units

MJH1 07/28/08 1904 775743

Report Date: July 31, 2008

Time Batch Method

The following Prep Methods were performed

Method Description

Dry Soil Prep GL-RAD-A-021

Analyst

CXC1

Date 07/21/08 Time Prep Batch

Project: TRCS00200 Client ID: TRCS002

DF

1540 775720

AnalystDate

The following Analytical Methods were performed

Method

Description

Analyst Comments

1

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-27-1.0 Gamma

212233012

Sample ID: Matrix:

Soil

Collect Date:

17-JUL-08 09:35 18-JUL-08

Receive Date: Collector:

Client

 Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Methoc
										

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.152 +/-0.0732 0.0695

0.100

pCi/g

Project: Client ID:

MJH1 07/28/08 1700 775743 1

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720	

The following Analytical Methods were performed

The following ?	thaty hear methods were performed		
Method	Description	Analyst Comments	
			-
1	TRALLIACE 200 A C 2 2	•	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 31, 2008

TRCS00200

TRCS002

Project:

Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-27-4.0 Gamma

212233013

Matrix: Collect Date:

Soil

Receive Date:

17-JUL-08 09:45 18-JUL-08

Collector:

Client

						-					
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	/sis								· .		
Gammaspec, Gamma, Sol	lid "Dry Weigh	nt Corrected"									
Cesium-137	U	0.00957	+/-0.054	0.0951	0.100	pCi/g		МЈН1 07/28/08	2107 7	75743	1
The following Prep Me	thods were per	rformed									(

Method	Description

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720

	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company:

TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

B-21-1.0 Gamma

Project: Client ID: TRCS00200

TRCS002

Report Date: July 31, 2008

Matrix:

212233014

Soil

Collect Date: Receive Date:

U

17-JUL-08 10:10 18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.0102 +/-0.0583

0.102

pCi/g

0.100

MJH1 07/28/08 2314 775743

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXCI	07/21/08	1540	775720	, ,

The following Analytical Methods were performed

Method	Description	Analyst Comments	
1	EML HASL 300, 4.5.2.3		The second secon

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Report Date: July 31, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-21-4.0 Gamma

212233015

Sample ID:

Soil

Matrix: Collect Date: Receive Date:

17-JUL-08 10:30 18-JUL-08

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	nalysis				· · · · · · · · · · · · · · · · · · ·						
Gammaspec, Gamma	, Solid "Dry Weight C	Corrected"									
Cesium-137	U -0	0.00859	+/-0.0569	0.0947	0.100	pCi/g		МЈН1 07/29/08	0738 7	75743	1
The following Prep	Methods were perfor	rmed			9						. (
Method	Description			•	Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep	GL-RAD-A	A-021		CXC1	07/21/08	1540	775720			

I he following A	Analytical	Methods	were	performed	
				•	

130 3030 313	many tient Mictions were pe	TOTALCO
Method	Description	Analyst Comments
	· · · · · · · · · · · · · · · · · · ·	

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Address:

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Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-23-1.0 Gamma 212233016

Soil

Collect Date:

17-JUL-08 11:10

Receive Date:

18-JUL-08

Collector:

Matrix:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch M	1ethoc
Rad Gamma Spec Analysis										

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.00923 +/-0.0371 0.0665

0.100

МЈН1 07/29/08 1010 775743 pCi/g

TRCS00200 TRCS002

Project: Client ID:

Report Date: July 31, 2008

The johowing Tre	b internous were berrormen					
Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

B-23-4.0 Gamma

212233017

Sample ID:

Matrix:

Soil

Collect Date: Receive Date:

Qualifier

17-JUL-08 11:35 18-JUL-08

Uncertainty

Collector:

Client

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

1

-0.0454+/-0.0553

Result

0.0863

DL

0.100 pCi/g

RL

МЈН1 07/29/08 1245 775743 1

Time Batch Method

Report Date: July 31, 2008

TRCS00200

AnalystDate

TRCS002

Project:

Units

Client ID:

DF

The following Prep Methods were performed

Time Prep Batch Method Description Analyst Date CXCI 07/21/08 1540 775720 Dry Soil Prep Dry Soil Prep GL-RAD-A-021

The following Analytical Methods were performed

Analyst Comments Method Description

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Company:

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Address:

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-33-0.5-Gamma

212233018

Soil

Collect Date:

Receive Date:

16-JUL-08 13:15 18-JUL-08

Collector:

Matrix:

Client

Parameter	Qualifier	Result	Uncertainty	DL .	RL	Units	DF	AnalystDate	Time	Batch Me	ethod
Rad Gamma Spec Analysis									٠.		

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.0054

+/-0.0513

0.0883

0.100

pCi/g

МЛН1 07/29/08 1516 775743

Report Date: July 31, 2008

TRCS00200

TRCS002

Project:

Client ID:

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	07/2 1/08	1540	775720	

The following Analytical Methods were performed

Analyst Comments Method Description

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Report Date: July 31, 2008

TRCS00200 TRCS002

Project:

Client ID:

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Contact:

Mr. Moises Carvalho

Project:

1

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-33-4.5 Gamma 212233019

Soil

Matrix: Collect Date:

16-JUL-08 13:25

Receive Date:

EML HASL 300, 4.5.2.3

18-JUL-08

Collector:

Client

	Concetor.		Chent							
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Bate	h Method
Rad Gamma Spec A	Analysis									
Gammaspec, Gamma	a, Solid "Dry Weight C	Corrected"						•		
Cesium-137	U -	-0.0382	+/-0.0412	0.0648	0.100	pCi/g	N	иJH1 07/29/08	1720 77574	3 1
The following Prep	Methods were perfo	rmed					•.			
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		CXC1	07/21/08	1540	775720		
The following Anal	lytical Methods were	performed								
Method	Description					Analyst Comm	ents			

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Project:

Humboldt Bay NPP Project 161072, Task

Result

Client Sample ID:

Sample ID:

PS-11C-0.3 Gamma

212233020

Soil

Matrix: Collect Date: Receive Date:

Qualifier

16-JUL-08 13:45

Collector:

18-JUL-08 Client

Uncertainty

Parameter Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0104 +/-0.040

0.068

DL

0.100

RL

pCi/g

Units

Project:

Client ID:

DF

MJH1 07/29/08 1951 775743

Time Batch Method

Report Date: July 31, 2008

TRCS00200

AnalystDate

TRCS002

The following Dron Methods were norformed

The following Frep Methods were performed										
Method		Description	Analyst	Date	Time	Prep Batch	-			
Dry Soil Prep		Dry Soil Prep GL-RAD-A-021	CXC1	07/21/08	1540	775720				

The following Analytical Methods were performed

	<u> </u>	
Method	Description	Analyst Comments
Method	Description	Analyst Comments

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Report Date: July 31, 2008

TRCS00200 TRCS002

Project: Client ID:

Analyst Comments

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Address:

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix:

PS-11C-1.5 Gamma 212233021

Soil

Collect Date:

Receive Date:

16-JUL-08 13:55

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertain	ty DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec A	Analysis			-							
Gammaspec, Gamma	a, Solid "Dry Weight C	Corrected"									
Cesium-137	U -0	0.00337	+/-0.0388	0.0653	0.100	pCi/g	1	МЈН 1. 07/29/08	0841 7	75744	1
The following Prep	Methods were perfor	rmed									(
Method	Description				Analyst	Date	Time	Prep Batcl	h		
Dry Soil Prep	Dry Soil Prep (GL-RAD-	A-021		BSW1	07/22/08	1137	775723			
								•			

The following Analytical Methods were performed

Method Description

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Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID:

B-19-0.5 Gamma 212233022

Soil

Matrix: Collect Date:

16-JUL-08 14:50

Receive Date:

18-JUL-08

Collector:

Client

Parameter Qualifier Result Uncertainty RLDLUnits DF AnalystDate Time Batch Method

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U -0.0171 +/-0.0337

0.0546

0.100

pCi/g

Project:

Client ID:

MJH1 07/29/08 1103 775744

Report Date: July 31, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method Description Analyst Time Date Prep Batch Dry Soil Prep Dry Soil Prep GL-RAD-A-021 BSW1 07/22/08 1137 775723

The following Analytical Methods were performed

Method Description Analyst Comments

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Contact:

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Project:

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2400

Client Sample ID:

B-19-4.5 Gamma

Sample ID: Matrix:

212233023

Soil

Collect Date: Receive Date:

Qualifier

16-JUL-08 15:15

Uncertainty

Collector:

18-JUL-08

Parameter

Client

Rad Gamma Spec Analysis

Result

Cesium-137

Gammaspec, Gamma, Solid "Dry Weight Corrected" U -0.0108

+/-0.0327

0.0536

DL

0.100

RL

Project:

Units

pCi/g

Analyst Comments

Client ID:

DF

Report Date: July 31, 2008

TRCS00200

AnalystDate

TRCS002

МЛН1 07/29/08 1103 775744 1

Time Batch Method

The following Prep Methods were performed

Method Time **Prep Batch** Description Analyst Date Dry Soil Prep Dry Soil Prep GL-RAD-A-021 BSW1 07/22/08 1137 775723

The following Analytical Methods were performed Method

Description

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Report Date: July 31, 2008

TRCS00200

TRCS002

Project: Client ID:

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Company: TRC Solutions, Inc.

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

212233024

PS-23BC-0.5 Gamma

Soil

Matrix: Collect Date: Receive Date:

16-JUL-08 15:40

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Metho
Rad Gamma Spec Ar	nalysis										,
Gammaspec, Gamma,	Solid "Dry Weight	Corrected"				•		,			
Cesium-137	U	0.0141	+/-0.0223	0.0414	0.100	pC i/g		МЈН1 07/29/08	1104 7	75744	1
The following Prend	Maraha da assas sa sa G		, 0,0225	0.0.2.	, 5.100	pong					-

The following Prep N	tetnoas were performea	<u> </u>	•	
Method	Description	Analyst Date	Time Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1 07/2 2/08	1137 775723	

The following Analytical Methods were performed

1110 10110	The state of the s		
Method	Description	Analyst Comments	
	·		· · · · · · · · · · · · · · · · · · ·
1	EMI HASI 300 4523		

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Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-29-0.5 Gamma

212233025

Matrix:

Soil

Collect Date: Receive Date:

Qualifier

17-JUL-08 08:25 18-JUL-08

Collector:

Client Result Uncertainty

Parameter Rad Gamma Spec Analysis

Cesium-137

Gammaspec, Gamma, Solid "Dry Weight Corrected" 0.113

+/-0.0674

0.0508

DL

0.100

RL

Project: Client ID:

DF

Units

pCi/g

MJH1 07/29/08 1104 775744

Time Batch Method

Report Date: July 31, 2008

TRCS00200

AnalystDate

TRCS002

The following Prep Methods were performed

Method Description Date Time Prep Batch Analyst BSW1 775723 Dry Soil Prep Dry Soil Prep GL-RAD-A-021 07/22/08 1137

The following Analytical Methods were performed

Analyst Comments Method Description EML HASL 300, 4.5.2.3

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Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

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Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-29-4.5 Gamma 212233026

Soil

Matrix: Collect Date:

17-JUL-08 08:35

Receive Date:

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metl	
Rad Gamma Spec Analysis										

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

U 0.00504

+/-0.0217 0.0373

0.100

pCi/g

Project: Client ID:

МЛН1 07/29/08 1104 775744 1

Report Date: July 31, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	775723	Ī

		at Methods were performed			
Method	* .	Description	Analyst Comments		
1		EMI HASI 300 4523			

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: July 31, 2008

TRCS00200 TRCS002

Project: Client ID:

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID: Matrix:

EML HASL 300, 4.5.2.3

PS-20C-0.3 Gamma

212233027

Soil

Collect Date: Receive Date:

17-JUL-08 09:00

18-JUL-08

·	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec	Analysis					· · · · · · · · · · · · · · · · · · ·					
Gammaspec, Gamma	a, Solid "Dry Weight Co	rrected"									
Cesium-137	UI	0.00	+/-0.0463	0.0374	0.100	pCi/g	N	AJH1 07/29/08	1241 7	75744	1
The following Pre	p Methods were perfor	med									(
Method	Description				Analyst	Date	Time	Prep Batch	1		. 7
Dry Soil Prep	Dry Soil Prep G	L-RAD-	A-021		BSW1	07/22/08	1137	775723			
The following Ana	alytical Methods were p	erformed	· !	-							
Method	Description					Analyst Comm	ents			•	

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Company:

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Address:

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Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

PS-20C-4.5 Gamma

212233028

Matrix: Soil

Collect Date:

Receive Date:

17-JUL-08 09:10 18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Metho
Rad Gamma Spec Analysis									٠	

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.00448

+/-0.0245

0.0428

0.100

pCi/g

Project: Client ID:

MJH1 07/29/08 1241 775744

Report Date: July 31, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description .	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	775723	

The following Analytical Methods were performed

	· · · · · · · · · · · · · · · · · · ·	La	
Method	Description		Analyst Comments

EML HASL 300, 4.5.2.3

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Company:

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

Matrix:

B-28-0.5 Gamma

212233029

Soil

Collect Date:

Receive Date:

17-JUL-08 09:40 18-JUL-08

Result

Collector: Qualifier

Client Time Batch Method Uncertainty RLUnits DF AnalystDate DL

Project:

Client ID:

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

Parameter

0.00491 +/-0.0241

0.0423 0.100 pCi/g

МЈН1 07/29/08 1242 775744

Report Date: July 31, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch BSW1 07/22/08 1137 775723 Dry Soil Prep Dry Soil Prep GL-RAD-A-021

The following Analytical Methods were performed

Analyst Comments Method Description EML HASL 300, 4.5.2.3

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Company:

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Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

Sample ID:

B-28-4.5 Gamma 212233030

Matrix:

Collect Date:

Soil

17-JUL-08 10:00

Receive Date: Collector:

18-JUL-08

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Method
				•					

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

-0.00678

+/-0.0204

0.0335

pCi/g

Project: Client ID:

MJH1 07/29/08 1316 775744

Report Date: July 31, 2008

TRCS00200

TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	775723	-

The following Analytical Methods were performed

1110 10110 11116 7	that y tical Methods were perior filed		
Method	Description	Analyst Comments	

EML HASL 300, 4.5.2.3

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Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-24-0.5 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 31, 2008

Matrix:

212233031

Soil

17-JUL-08 10:15

Collect Date: Receive Date:

18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time B	atch	Method
Rad Gamma Spec	Analysis										
Gammaspec, Gamm	a, Solid "Dry Weight C	orrected"						•			
Cesium-137	•	0.0896	+/-0.047	0.0512	0.100	pCi/g	-	МЛН1 07/29/08	1430 775	744	1
The following Pre	p Methods were perfoi	rmed									ĺ
Method	Description	•			Analyst	Date	Tim	e Prep Batch	1		

Dry Soil Prep	Dry Soil Prep	GL-RAD-

Method	Description	Analyst	Date	Time	Prep Bat
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	775723

	that the trace were per for mea	
Method	Description	Analyst Comments
1	CACT TIACT 200 AC 22	

EML HASL 300, 4.5.2.3

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Project:

Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID:

Sample ID: Matrix:

212233032 Soil

Collect Date:

17-JUL-08 10:40

B-24-4.5 Gamma

Receive Date: Collector:

18-JUL-08

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batch Metho-
Pad Camma Space Analysis									

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

+/-0.146

0.0394

0.100

pCi/g

Project:

Client ID:

МЛН1 07/29/08 1447 775744 1

Report Date: July 31, 2008

TRCS00200 TRCS002

The following Prep Methods were performed

Method	Description	Analyst	Date	Time,	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	. BSW1	. 07/2 2/0 8	1137	775723	

The following Analytical Methods were performed

Method	Description	Analyst Comments	
1	FMI HASI 300 4523	The second secon	

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Humboldt Bay NPP Project 161072, Task

2400

Client Sample ID: Sample ID:

PS-21C-0.3 Gamma 212233033

Matrix: Collect Date:

Soil

Receive Date:

17-JUL-08 11:15

18-JUL-08

Collector:

Client

	Conceior.		Chent							
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Ba	tch Method
Rad Gamma Spec A	nalysis									
Gammaspec, Gamma	a, Solid "Dry Weight Co	rrected"	•			•	-			
Cesium-137		0.199	+/-0,042	0.0391	0.100	pCi/g]	MJH1 07/29/08	1648 7757	44 1
The following Prep	Methods were perfori	ned	•			•				(
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep G	L-RAD-	A-021		BSWI	07/22/08	1137	775723		
•										

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID:

PS-21C-4.5 Gamma

Project: Client ID:

TRCS00200 TRCS002

Report Date: July 31, 2008

Sample ID: Matrix:

212233034

Soil

17-JUL-08 12:30

Collect Date: Receive Date: Collector:

UI

18-JUL-08 Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Metho

Rad Gamma Spec Analysis

Gammaspec, Gamma, Solid "Dry Weight Corrected"

Cesium-137

0.00 +/-0.0413 0.0384

0.100 pCi/g MJH1 07/29/08 1649 775744

The following Prep Methods were performed

. The following I rep	Michigas were performed					
Method	Description	Analyst	Date	Time	Prep Batch	_
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	775723	

The following Analytical Methods were performed

Method **Analyst Comments** Description

EML HASL 300, 4.5.2.3

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 31, 2008

Page 1 of 2

TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California

Contact: Mr. Moises Carvalho

Workorder:

212233

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gamma Spec Batch 775743										
QC1201625045 212233001 Cesium-137	DUP	υ	-0.00795 +/-0.0235	U	-0.0593 +/-0.0423	pCi/g	153		N/A MJH1	07/29/08 22:32
QC1201625046 LCS Americium-241	16.8				12.9	pCi/g		77	(75%-125%)	07/30/08 06:41
Cesium-137	6.34				+/-1.14 5.93 	pCi/g		94	(75%-125%)	
Cobalt-60 OC1201625044 MB	8.26	•			8.11 +/-0.648	pCi/g		98	(75%-125%)	·
QC1201625044 MB Cesium-137				υ	-0.0314 +/-0.0272	pCi/g		٠	•	07/30/08 01:10
Batch 775744						•	•			
QC1201625048 212233021 Cesium-137	DUP	υ	-0.00337 +/-0.0388	υ	0.022 +/-0.0417	pCi/g	272		N/A МЈН1	07/29/08 16:5
QC1201625049 LCS Americium-241	15.9				13.5 +/-1.13	pCi/g		85	(75%-125%)	07/29/08 16:55
Cesium-137	6.02				6.02	pCi/g		100	(75%-125%)	
Cobalt-60	· 7.84				7.89 +/-0.591	pCi/g		101	(75%-125%)	
QC1201625047 MB Americium-241				υ	0.0167 +/-0.0464	pCi/g				07/30/08 12:48
Cesium-137	•			U	-0.00371 +/-0.0145	pCi/g				
Cobalt-60		•	•	U	-0.00974 +/-0.0151	pCi/g				

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low

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QC Summary

Workorder:

212233

Page 2 of 2

Parmna	me NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
С	Analyte has been confirmed by GC/MS analysis	;					,				
D	Results are reported from a diluted aliquot of the	e sample									•
: H-	Analytical holding time was exceeded								1		
j .	Value is estimated										
. M	M if above MDC and less than LLD										
N/A	RPD or %Recovery limits do not apply.								•		
ND	Analyte concentration is not detected above the	detection lin	nit								
NJ _.	Consult Case Narrative, Data Summary package	, or Project l	Manager	concerning t	his qualific	er	*		•		
R	Sample results are rejected	•									•
U	Analyte was analyzed for, but not detected abov	e the MDL,	MDA, or	LOD.							
Ul	Gamma SpectroscopyUncertain identification										
X	Consult Case Narrative, Data Summary package	, or Project l	Manager	concerning t	his qualifie	er					
Y	QC Samples were not spiked with this compoun	d									
^	RPD of sample and duplicate evaluated using +/	-RL. Conce	ntrations	are <5X the	RL. Quali	fier Not A	oplicable for F	Radiochemi	stry.		
h · .	Preparation or preservation holding time was exc	ceeded							. "		

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GFT Quote #:	GEL Ch				•			_	•		Re	equ	est		2	2040 : Charlo Phone	Savag eston, e: (843	atories se Road SC 29 3) 556-	9407 -8171	
Chent Name: TRC		Phone #: L	115-7	<u>/</u> 44	- 3c	000	•		San	iple A	nalys	is Re	quest	ed ⁽⁵⁾ ((Fill i	n the	num	ber of	conta	iners for each test)
Project/Site Name: HBPP	***	Fax #: 41	5-5	41-9	137	8		ıld this	iners			2								< Preservative Type (6)
Address: 55 And St., Suite 575, Sav	Francis	w; 94	105				ı	ple be idered:	conta			P								
Collected by: K. Gillis Send Resu	lts To: mcar	-valho	عبا و	solu	tion	مهرده	m	2	er of	-0		€	~							Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time	QC Code		d S	Sample	active	TSCA Regulated	Total numb	P-Hdl	5000	CAM-17	65-13							required for sample specific QC
B-34-1.0 7/16/08 14:10 G NA SO N 2 X X X																				
B-34-1.0 Gamma 14:10 1 1 1 X																				
B-34- 4.0 14.25 2 2 XX																				
6-34-4.0 Gamma																				
B-34-8.0		14:35		\Box		1			a	又	人	人			\dashv					
3-34-8.0 Ganna		14-35				1	II		ī				人							
PS-23AC-1.0	RO	15:30				+	Π		a	火	· X	X					_			
P5-23AC-1.0 Gama	K	19185				1			1				人							
PS-23AC-40	6	15:45				1	11		2	人	X	X.				<u> </u>				
PS-23AC-4.4, Gamma		The most	T			T			1				X		$\neg \uparrow$					
TAT Requested: Normal: Rush: X Specify 48	!		·	· Y	es	,	<u> </u>	6	Ci	role D	elivers	ble: (nf A	/ 00	Sum	marv	/ 1	evel !	/ 16	vel 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to All metals were field filtered	these samples	s? If so, ple	ase lis	t the l	hazar	ds ·										,,,,,,		Samr Eas Cen		Pacific Other
Chain of Custo				~				ŀ						ple Sh	ippin	gan	d De	livery	Detai	ils
Remoquished By (Signed) Date Time	Received by (s	, i ,	Date	Tin	ne			GEL	PM:	E	ריח	5	anla	<u>-</u> -y						
Myle Hillis 7/17/08 15:00	1 mle	failes	7-/	8-0	8_	09	15	Metho	od of S	hipmer	nt: F	ed.	<u> </u>			Date	Shipp	ed:	<u>711</u>	1/08
	2	· · · · · · · · · · · · · · · · · · ·	·					Airbi	II #:	-				· · · · · · · · · · · · · · · · · · ·						
	3							Airbi	11 #:											
	For Lab Receiving Use Only Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite For Lab Receiving Use Only																			
	Custody Seal Intect? Custody Seal Intect? Custody Seal Intect? Natix Codes: DW=Drinking Water. GW=Groundwater, SW=Surface Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal YES NO																			
20 Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010										nc, If no	preserv	ative is	added :	= leave fic	id blan	k				Cooler Temp:
WHITE = LABOR	.ATORY		YELL	ow =	FIL				PIN	K = (CLIE	NT								7

PO Number: 161072	GEL Worl			ain of	Cu	sto	dy	an	d .	Ar	ıal	yti	cal	Re	qu	est			2040 S Charle Phone	abora Savage eston, 5 :: (843) 843) 7	Road SC 29) 556-	1 407 8171	
Client Name: TAC				Phone #: 山	15-6	,44	-30	000				Sam	ple A	nalys	is Re	ques	ted ⁽⁵⁾	(Fill	in the	ոստե	er of	contai	ners for each test)
Project/Site Name: HBPP				Fax #: 415	- 51	41-	937	78		nould		containers	:										< Preservative Type (6)
Address: 55 and st., Suite 5	75, Sa	n F	ταης	ico, CA		1410	5			nside		f contz		•	Metals								Comments
ollected by: K. Gillis Send Results To: mcarvalho @trzsolutions.co												ber of			8	-137							Note: extra sample is
Sample ID * For composites - indicate start and stop date/s		*Date (Collected -dd-yy)	*Time	QC Coc	ic l'i	ield	Sample Matrix	_	Radioactive	TSCA Regulated	Total number	P-HOL	SUOCS	(AM-17)	55-1							required for sample specific QC
B-26-1.0 7/16/08 16:05 G NA 50 N														X	X								
B-26-1.0 Gamma 16:05 G NA 50 N 2 X X															X								
B-26-4.0				16:20					\prod	П		٦	X	Х	X							,	
B-26-40 Ganna				16:30						П		1				×							
B-25-1.0		7	7108	8:30			1			\prod		2	X	X	X								
B-25-1.0 Gaming)	8-20				\prod		\prod		1				X							
B-25-4.0				8.45						1		12	X	义	X								
B-25-4.0 Gamma				8:45												X							
B-22-1.0				9:00							_	g	X	X	X								·
B-22-1.0 Ganna			V	9:00	J				′],		· · ·	1				X							
TAT Requested: Normal: Rush: X S Remarks: Are there any known hazards ap All metals were Fresh	oplicable to	these	samples	? If so, ple	sults: ease l	ist th	Yes e ha		<u> </u>	No	<u>D</u> _	<u>_</u> c	ircle [elive	rable:	Cof	<u>A / C</u>	QC Sui	, <u>mmar</u>	y / L	Sam Eas Ce	ple Col stern ntral	vel2 / Level 3 / Level 4 lection Time Zone Pacific Other
Cha	ain of Custo	dy Sign	natures				· ·									Sa	mple	Shipp	ing a	nd De		y Deta	ils
Relinquished By (Signed) Date Tim	e	Rece	eived by (s	igned)	Date		Time				GEI	L PM	:	Eri	Λ.,	5+	anle	<i>Y</i>					
	15:00	1 1/	lo K	whit	7-1	B1	18	09	15		Meth	nod of	Shipme		_				Date	e Ship	ped:	7/	17/08
2		2						***			Airb	111 #:											
3		3									Airb	ill #:											
1.) Chain of Custody Number = Client Determined 2.1 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fi	eld Dunlicate E	R = Emin	nseat Blank	MS = Matrix	Snika S	male !	MSD =	= Matrix	Snike	Duel	icate S	ample	G = Gr	nh C=	Compo	site							For Lab Receiving Use Only
3.) Field Filtered: For fiquid matrices, indicate with a - Y - for	yes the sample w	as field ti	licred or - N	🕯 - for sample w	as not f	ield filo	ered.		•			٠.											Custody Seal Intact? YES NO
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S 5.) Sample Analysis Requested: 'Analytical method requested to Preservative Type: 11A = Hydrochloric Acid, N1 = Nitric A 6.) Preservative Type: 11A = Hydrochloric Acid, N1 = Nitric A 7. Preservative Type: 11A = Hydrochloric Acid, N1 = Nitric A 8. Preservative Type: 11A = Hydrochloric A 8. Preservative Type: 11A	(i.e. 8260B. 6010	B/7470A) and numbe	r of containers	provide	d for co	ch (i.e.	. 8260B	- 3, 6	a raez	7470A	- 1).											Cooler Temp:

WHITE = LABORATORY

YELLOW = FILE

Pager 3 of 4			ain of	Cus	stoc	dy a	no	d A	nal	yti	cal	Re	qu	est			2040 : Charle Phone	Labora Savage eston, S E: (843)	Road SC 29) 556-	407 8171	
Client Name: TRC			Phone #: V	t16-	644	- 300	00			Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾	(Fill	in the	numb	er of	contai	iners for each test)
Project/Site Name: HBPP			Fax #. W	15-5	41-	937	8		d this	iners											< Preservative Type (6)
Address: 55 and St., Suite 575, S.	an F	تعمدت	sco, CA	qu	tlos				ile be dered:	containers	•		Metak								Comment
Collected by: 以。Gillis Send Resul	ts To: r	ncan	valho @	tres	oluti	ions.	can		ited	ber of		\sim	É								Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date C	Collected dd-yy)	*Time	QC Code	Fiel	- {	mple	ict ive	TSCA Regulated	Total number of	TPHA	5VOCS	CAM-17	C5-137							required for sample specific QC
β-22-4.0	N		<u>\$</u>	X	×	X															
B-22-4.0 Gamma 7117108 9:20 G NA SO N 2 X X X X																					
B-27-1.0																					
B-27-1-0 Camma			9:35							١				4							
B-27-41.0	·		9:45							3	1	1	X								
3-27-4.0 Gamma			9,45				\prod			1				7							
8-21-1.0			10.10							2	X	Χ	X								
B-21-1-0 (2gma			10:10							1				X							,
13-21-4.0			10:30							3	X	X	X								
B-21-40 Gamma		$\sqrt{}$	10:30	J	J			J	·[1				X							
TAT Requested: Normal: Rush: X Specify: 4X h	に (Subjec	t to Surcha	rge) Fax Re	sults:		/es	1	N	<u>) </u>	Ci	rcle D	livera	ble: C	of A	_/ Q	C Sun	nmary				vel / Level 3 / Level 4
Remarks: Are there any known hazards applicable to	these s (Gu)	amples	? If so, pled	ase lis	t the	hazari	ds							<u> </u>		,			Eas Cen	tern	lection Time Zone Pacific Other
Chain of Custo																hippi	ng an	d Del	ivery	Deta	ils
Reiniquished By (Signed) Date Time	ı	ved by (si		Date	Ti	ne		_	GEL	PM:	E	, CID			7		r				
Myle Hollis 7/17/08 15:00	1/1/1	e fa	lu 7.	80	3_	09	کا		Meth	od of S	hipmer	t: F	<u>ed</u> 6	<u>X</u>	 ,		Date	Shipp	ed:	711	1108
	2						<u> </u>		Airbi												
13 chain of Custody Number = Client Determined	[3							:	Airbi												For Lab Receiving Use Only
2) QC Codes; N = Normal Sumple, TB = Trip Blank, FD = Field Duplicate, EB 3 s field Filtered: For fiquid matrices, indicate with a - Y - for yes the sample width Alatrix Codes; DW=Drinking Water, GW=Groundwater, SW=Surface Water, Stample Analysis Requested: Analytical method requested (i.e. 8260B, 6010 to 2 theservative Type; HA = Hydrochtoric Acid, NI = Nitric Acid, SH = Sodium WHITE = LABOR	ras field fill r. WW=W B/7470A): n Hydroxid	ered or - N uste Wuter, and number e, SA = Sul	• for sample wa. W=Water, SO= of containers pa furic Acid, AA=	s not field *Soil, SD myided fi	i filiered ≖Sedim or each (ic Acid,	I. ent, S L= (i.e. <i>8261</i> HX = H	Sludge	c, SS=S , 6010B	olid Was /7470A	ste. O=(- 1). hiosulli	Dil, F≠F	iter, P=	Wipe, l	.r=Urin					٠.		Custody Seal Intact? YES NO Cooler Temp:

PO Number: 161073	GF GEL Work O		ber:				l A	nal			·	<u>.</u>	· ·		Chi Pho Fax	10 Sav urlesto one: (8 c: (843	oratorie age Roa in, SC 2 343) 556 3) 766-1	id 9407 5-8171 178	
Client Name: TRC			Phone #: L	115-6	544-	3000			Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾ (1	Fill in t	he nu	mber o	fcontai	ners for each test)
Project/Site Name: HBPP			Fax #: 410	5-54	1- 93	ष्ट	Shoul	d this	containers										< Preservative Type (6)
Address: 55 and St., Suite	575, Sa	, Franc	isco, CA	- 94	1105		consid	lered:	cont			当						1 1	Comments
	Send Results To							. 5	er of	أسا		3					•		Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/t	•1	nate Collected	*Time	QC Code	l l	Sumple	Radioactive	TSCA Regulated	Total number	P-H&L	Svacs	CAM-17 Moteds	C5-137						required for sample specific QC
8-23-10 7/17/00 11:10 G NA SO N 2 X X X															,				
B-23-10 Gamma	1	1		١				×											
B-23-40			11:35						Э	×	×	×							
B-23-4.0 Gamma			11:35		V		\prod		1				X						
B-21-6W			10:45		Y	600			3	人	X	×	<u>.</u>						
B-23-6W		J	13:00	1	Y	Gu	1		3	义	×	X	<u> </u>						·
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TAT Requested: Normal: Rush: X S	pecify:48 ha	Subject to Surch	nrge) Fax R	esults:	Ye	s · /	<u> </u>	<u> </u>	С	ircle D	eliver	able:	C of A	/. QC	Sumn	ary .	/ Level	1/6	evel 2 / Level 3 / Lovel 4
Remarks: Are there any known hazards ap All metals were field filt	plicable to the	ese sample:	s? If so, ple	ease lis	st the ho	zards											Sai E C	mple Cò astern entral Iountain	Pacific Other
Cha	in of Custody	Signatures						$ \mathbb{I} $					Sar	nple St	ippin	gand	Delive	ry Deta	ails
Relinquished By (Signed) Date Time	Į.	Received by (s	~ //	Date	Time			GE	L PM:	:	Eric		Stan	ley					·
Kyle Hello 7/17/08 15	ا ٠ ١٥٥٠	mel	Mrs	778	8	091	2	Met	hod of	Shipmo	ent:	Fed	ex			Date S	hipped:	7	17/08
2	2							Airb	oill#:										
3	3							Airt	oill#:										
													For Lab Receiving Use Only						
1.) Field Filtered: For liquid matrices, indicate with a - Y - for 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S	yes the sample was ti	eld filtered or - i	N - for sample v	vas not lie	ld likered.									nc. F=Fcc	al. N=Na	اندو			Custody Seal Intuct? YES NO
4.) Mairix Codes: Dw-prinking water, Gw-Groundwater, S										. • •									Cooler Temp:

WHITE = LABORATORY

VELLOW = EH E

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank DINV - OF HOST

GEL Quote #:	GEL Ch		Cus	tod	y and	d A	nal							1	2040 Sa Charles Phone: Fax: (84	avage Roton, SC (843) 55 43) 766	29407 56-8171 -1178	
Client Name: The		Phone #: 4	156	14-3	Dao			Sam	ıple A	naly	is Re	ques	ted ⁽⁵⁾	(Fill i	n the r	number	of conta	iners for each test)
Project/Site Name: HBPP		Fax #: 415	-54	1-93	78	1	ld this ple be	iners			ص							< Preservative Type (6)
Address: 55 2nd St, Suite 575, SF,	CA 94105						dered:	conta			=				1	1		
Collected by: M. Sellwood Send Resi	ilts To: Mearu	who etr	-50 hai	H'4 N5-	con		ā	er of	Q	<u>ر</u>	4+ 5	57			1			Comments Note: extra sample is
Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code		Sample		TSCA Regulated	Total number of containers	TPH-d	3008	CAM-17 metal	2.20	'					required for sample specific QC
B-33-0.5	07/16/08	1315	6	NA	-5-			2	X	X	X							
B-33-4.5		1325	1_					2	X	X	X							
B-33-0.5 gamma		1315	1					1.				X						
13-33-45 gamma	1	1325	V	V	1	\prod		1				X						
PS-11C-0.3		1345	١.		1	П		2	X	X	X							
PS -11C - 1.5		1355		1	11	\prod		2	X	X	X							
		1345				11		ı				V						
PS-11C-0.3 gamma PS-11C-1.5 gamma		1355	V	T	A)	\prod		1				X						
B-19-0.3	1	1450			11	Π		2	V	X	X	1						
13-19-4.5		1515	V	V	T	T	1	2	X	X	X							
TAT Requested: Normal: Rush: X Specify: 48	hr. (Subject to Surcha	1 .	sults:	Ye	s /	TN	<u>ي</u>	Ci	irele D	eliver	able:	Cof	. / 0	C Surr	marv	/ Leve	11 / 8	Level 4.
Remarks: Are there any known hazards applicable	o these samples	? if so, ple	ase lis													Sa	imple Co Eastern Central Mountair	Pacific Other
	ody Signatures	1	· · · · · · · · · · · · · · · · · · ·	7:			-			· ·				hippi	ng and	Delive	ery Deta	ails
Reforquished By (Signed) Date Time	Received by (si	1	Date	Time	_		GEL	PM:		Eri		st-ar	lex		·			
Mh (ILd 0417108 1530	1 1/6 /	- Kles	7-	303	09	715	Meth	od of S	Shipme	ent;	Fed	ec			Date S	Shipped:	7/	17/68
	2	· · · · · · · · ·					Airbi			•		 -						
13 Chart of Custody Number = Client Determined	3		·	·			Airbi											For Lab Receiving Use Only
23 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate. 24 Peeto Filtered: For liquid matrices, indicate with a - Y - for yes the sample 25 Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface With 26 Sample Analysis Requested: Analytical method requested (i.e. 8260B. 60 27 Processative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodi WHITE = LABO	was field filtered or - N ter, WW=Waste Water. 0B/7470A) and number im Hydroxide, SA = Sul	! - for sample wa . W=Water, SO r of containers p Ifuric Acid, AA	s not field =Soil, SD rovided fi = Ascorbi	I filtered. ≈Sedimen or each (i.a	i. SL=Sludi :. <i>8260B</i> • . X = Hexan	e. SS=S 3, <i>6010E</i>	olid Wa 27470 <i>A</i>	stc. O≃t - I). Thiosulf	Oil, F=I	Filter, F	=Wipe.	U≈Uņi						Custody Seal Intact? YES NO Cooler Temp:

Page:	GEL Work						d A	na						(5) (Fi	2040 S Charle Phone Fax: (aborato Savage R eston, SC :: (843) 5 843) 766	Coad 2940 56-8 5-117	07 171 8	ners for each test)
										pie A	lialys	- T	T		11 111 1110	·			
Project/Site Name: HBPP			Fax #: 419	5-54	11-93	78		ld this ple be	containers						 		_		< Preservative Type (6)
Address: 55 and 5t., Smite	575, SF	, CA 91	1105				consi	dered:	cont		1	4							Comments
Collected by: M. Sellwood	Send Results			حماينا	ions (P	o a	-6	ل	4	37			\ \	.		Note: extra sample is
Sample ID * For composites - indicate start and stop date		*Date Collected (mm-dd-yy)	• Time	QC Code	1	Sample		TSCA Regulated	Total number	10-49T	SVOCS	CAM-17 mets	7					•	required for sample specific QC
B-19-0.5 gamma		7/16/08	1450	6-	NA	- 5	N						X						
B-19-4.5 gamma	Y	1	1515	1.	1	1.	1	1	1				X						
PS-23BC-0.5		1	1540	1	1	1	$\dagger \dagger$	1	2	X	X	X			1				
1			1540		1	t	11	1	1				X			1 1			
PS-23BC-D.5 gamma		21.01.0	1	T	+-	1	11	1	2		X	X			1	1-1	7		
8-29-0.5		7/17/08	ļ	+-	++	+}-	#	 	2		\bigcirc	\Diamond	\dashv	-	+-	+			
B-29-4.5			0835	++-	╁╂╴	┼┼╌	++	+	1-				\		+-	+-+			
B-29-0.5 gamma B-29-4.5 gamma B-29-gw			0825		++,		╁╁		11-	┼	}					1			·
B-29-4.5 gamma		<u>, </u>	0835	-	1	1	11	+	41		\		X			+-+	\dashv		<u> </u>
B-29-9W			0855	ĮΨ	1.X	W	11	,	3	\bigvee	X	X							
PS-20C-0.3		_\	0900	1	NF	1 S	14	1	2	V	\bigvee	X						<u> </u>	,
	Specify: 45 hr.	(Subject to Surch	arge) Fax R	esults:	Y	es - /	0	Q	_ c	ircle l	Deliver	able:	CofA	/ QC	Summar	y / Le	vel i	1 Le	vel 2 / Level 3 / Level 4.
Remarks: Are there any known hazards of	applicable to t	hese samples	? If so, plo	ease li	st the h	azards	,		÷.								East Cen	tern	lection Time Zone Pacific Other
	rain of Custod	y Signatures											Sam	ple Shi	pping a	and Deli	very	Deta	ils
Relinquished By (Signed) Date Ti	me	Received by (s	igned)	Date 7	Tim	c		GE	EL PM	::	Erin	بو	ranle	<u>.</u>				<u></u>	
mh lld otitos	1530	1 Miles	Loly		18-03	8 09	715	Me	thod of	Shipin	ent:	Fed	ex		Da	te Shippe	d:	71	17/08
2		2						Air	rbill#:	· 					, -				
3		3						Air	rbill#:										
L) Chain of Custody Number = Client Determined	sino e po	- f i 13(a-b	340 = 11-4-	C=11 C=	mal. MCI) = Adulaiu (ealles D	unlinata	Sumala	G = G	nh C =	Compos	ine		,				For Lab Receiving Use Only
 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Filtered: For figuid matrices, indicate with a - Y - 	or yes the sample wa	s field filtered or - i	V - for sample v	vas not fi	old filtered.														Custody Seal Intact? YES NO
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater 5.) Sample Analysis Requested: Analytical method requeste	, SW=Surface Water. d (i.e. 8260B, 6010B	, WW≂Waste Wate 1/7470∧) and numb	r. W=Water. S er of containers	O≈Soil, S : provided	SD=Sedime I for each (i	nt. SL#Sluc .c. <i>8260B</i> -	dge. SS: - 3. 6011	=Solid V 0 <i>B/7470</i>	Wasie. O: 0A - <u>1</u>).	=Oil. F	=Fiher, l	P=Wipe.	U≃Urine	. F=Fecal	. N≖Nusal			-	Copler Temp:
							C75	6.0	m Thiorn	16a - 16			in addad :	a leases tie	ld blank			1	. 4 C

Page 3 of 4 Page 4: 161072 GFL Quote #:	GEL Chain of Custody and Analytic	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
Clien: Name: TPC	Phone #: 415-644-3000 Samp	ple Analysis Requested (5) (Fill in the number of containers for each test)
Project/Site Name: HBPP	Fax #: 415 -541 - 9328 Should this	< Preservative Type (6)
Address: 65 2nd \$, Suite 575,	Fax #: 416-541-9328 Should this sample be considered:	¥
		Comments Note: extra sample is required for sample specific QC
PS-20C-4.5	07/17/08 0910 G NA S N 2	XXX
PS- 20C-0.3 gamma	1 0900 1 1 1	
PS-20C-4.5 gamma	V 0910 V V V I	X
B-28-0.5	0940 1 1 2	XXXI
B 28 - 4.5	1000 2	XXX
B-28 - 0.5 gamma	094p	
B-28-4.5 gamma	V 1000 V V V V	
B-24-0.5)015 2	\times
B-24-4.5	1040 2	
B-24-0,5 gamma	V 1015	
TAT Requested: Normal:Rush: _X _ Specify:	M. (Subject to Surcharge) Fax Results: Yes / 🔊 Circ	rcle Deliverable: C of A / QC Summary / Level 1 / Level 3 / Level 4.
Requested: Normal: Rush: X Specify: Remarks: Are there any known hazards applicate All retals were field f		Sample Collection Time Zone Eastern Partie Central Other Mountain
	dy Signatures	Sample Shipping and Delivery Details
Reimquished By (Signed) Date Time	Received by (signed) Date Time GEL PM:	Erin Stanles
mil Illed 07/17/08 15	1 Whe famlow 7-808 0915 Method of Sh	hipment: Fedex Date Shipped: 7/17/08
2	2 Airbill #:	
L. Clare of Custody Number = Client Determined	3 Airbill #:	For Lah Receiving Use Only
One odes: N = Normal Sample, TB = Trip Blank, FD = Field Duplic Field Filtered: For liquid matrices, indicate with a - Y - for yes the se Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface	er, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=O	Grab, C = Composite Custody Seal Intact?
Sample Analysis Requested: Analytical method requested (i.e. 82601 The evisive Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = WHITE = LA	DB/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). IN Hydroxide, SA = Sulfuric Acid. AA = Ascorbic Acid. HX = (lexen ST = Sodium Thiosulfait RATORY YELLOW = FILE PIN	

Page:		GEL Cha		Cus	stody	and	l A	nal	yti	cal	Re	que	est		2 C P	GEL La 040 Sa Charles Chone:	ivage ton, S (843)	Road C 294 556-1	407 8171		
Client Name: TRC			Phone #:니	115-6	14-36	90 <i>u</i>			Sam	ple A	nalys	is Req	queste	đ ⁽⁵⁾ (Fill in	n the n	umb	er of	contai	ners for each test)
Project/Site Name: HBPP			Fax #: 4	15-5	41-93	78	Shoul		containers			4						·		< Preservativ	е Туре (6)
Address: 55 2nd st. Site 5	75. SF.	CA 9410	S				consid		cont			12				}	. }		Ì		4-
Collected by: M. Sellwood		s To: Mcarva		nedi	+><			8	er of		Ì		4	•				.		Comme Note: extra s	
Sample ID * For composites - indicate start and stop date/		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code		Sample Matrix (4)		TSCA Regulated	Total number	B-HOT	SVOLS	F1-140)	Cs-137		-					required for specific	sample
B-24 - 4.5 gamma	_ ,	07/17/08	1040	6	NA	S	W						X								
PS-216-0.3			1115						2	\sum	X	X								<u> </u>	
PS-21C-4,5			1230						2	X	\times	X									····
PS-21C-0,3 gamma			1115										\times						 		
PS-21C-0.3 gamma PS-21C-4.5 gamma	·	V_	1230	1	1	V	W	-	1_	_	-		X	-		_		,,,,,	-		<u> </u>
				-	-		<u> </u>	-	-		-				-			······			.
					 			1											,		
						1	1														
TAT Requested: Normal: Rush: X	Specify.484	(Subject to Surcha	rge) Fax R	esults:	Yes		Ø	Α	Ci	rcle [eliver	able:	C of A	/ Q	C Sum	ımary	/ L	evel l	/ €	evel2 Level3	/ Level 4.
Remarks: Are there any known hazards a	oplicable to	these samples	? If so, pl	ease lis	st the ha	zards			-								·····	Eas Cer Mo	tern itral untain		_
		dy Signatures		Deta	Time			1							hippi	ng an	d Del	livery	y Deta	ils .	
Relinquished By (Signed) Date Tim	e	Received by (s	gneu)	Date	Time	_		-	L PM:		tr:	<u>^ </u>	Inpte	ey		Τ				· · · · · · · · · · · · · · · · · · ·	
mull 07/7/0	7 1530	The	f sul	1	7-18-0	3 2	2915	Meth	hod of S	Shipm	ent:	Fed	CK_			Date	Shipp	ed:		/17/08	
2		2	· · · · · · · · · · · · · · · · · · ·					Airb	ill#:												
3	 -]3			·			Airt	ill#:		<u> </u>				· ·				7	C 1 1 2 · · ·	
 Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = F Field Filtered: For liquid matrices, indicate with a - Y - for Matrix Codes: DW-Drinking Water, GW=Groundwater, 3 	r yes the sample w SW≃Surface Wate	er, WW=Waste Water	l - for semple : . W≃Water, S	was not fic O=Soil, S	ld filtered. D=Sedimen	SL=Slud	lge, SS=!	Solid W	uste. O=			`		e, F#Fe	cal. N=l	Nasal				For Lab Receiving Custody Seal I YES	ntact? NO
Sample Analysis Requested: Analytical method requested Preservative Type: HA = Hydrochloric Acid: N1 = Nitric A	(i.c. 8260B. 6010	B/7470A) and number	r of containers	provided	for each (i.e	. 8260B -	3.6010	B/7479A	- 1).		•								1	Cooler Tei	np: C

GEL	Laboratories uc	

SAMPLE RECEIPT & REVIEW FORM

GEL L	aboratories LLC				SDG/ARCOC/Work Order: 212331, 212238, 212233
	TRC				Date Received: 7-8-8
ent:	MY			I	Date Received:
ceived By:	11	Kg	ž	*If C	
spected Hazar	d Information	15	2	the h	imum Counts Observed*: Ofm 40
ocisamples ma	rked as radioactive?		-	Max	invin Course
End Padios	ctive II by KSU:	4	1	├─	
oc/Samples III	arked containing PCBs?		4	1407	ard Class Shipped: UN#:
inned as a DO	T Hazardous!	4	17	4	
amples identific	ed as Foreign Soil?		<u>L'</u>	<u></u>	Comments/Qualifiers (Required for Non-Conforming Items)
	ole Receipt Criteria	Kes	Z	Ž	Cherch (describe)
		_	1	T	seals broken damaged container leaking container other (describe)
Shinping	containers received intact an	4 /		1	
1 sealed?	ž.		1		Preservation Method: pone other (describe)
1	- sion		X	1	ice hage blue ice dry ice none
Samples	requiring cold preservation	V		1	40
within (4	1+/-2C)?		-		
Chain	custody documents included				
3 with shi	pment?	1			Circle Applicable: Other (describe)
					scals broken damaged container leaking container
4 Sample	containers intact and sealed?	V			fined and observed pit.
4 Sample	· ·	╌┼╂╴	-7		Sample ID's, containers affected and observed pH:
Cample	s requiring chemical			1	If Preservation added, Lots:
5 preserv	ation at proper pH?		_	-	Sample ID's and containers affected:
	ials free of headspace (defin	ed as		Λ	
6 VOA V	bubble)?	1	_		(If yes, immediately deliver to Volatiles laboratory)
\					/(II) you,
7 Are Er	acore containers present?	1			ld's and tests affected:
`\\					ld's and tests ances
a Gamai	es received within holding ti	me?	/.		"fferred:
-1 - 1					Sample ID's and containers affected:
Samp	le ID's on COC match ID's or	Ω	/		
y bortle	s?		 		Sample ID's affected:
1000	& time on COC match date	& time	/	1	
10 lon be	mles?		1-		Sample ID's affected:
	the of containers received m	atch	1	1	
11 Num	ber indicated on COC?		1-	-	
 	is monerly signed in		W		
12 COC	LAGGETYCU SCOUTT	,,,,,,,,			
	Idmarkaria	•	1		5 1706 47TO 4683 4709 4731
Comments	: [-X	70	15	4683
	1,	/\	/	; ·	4707
					4731
					4/20
					4742
1				1	4694
				:	910AS Date 118/08
	PM (or PMA) rev				9MS Date

List of current GEL Certifications as of 31 July 2008

State	Certification
Arizona	AZ0668
Arkansas	88-0 651
CLIA	42 D0 904046
California - NELAP	01151CA
Colorado	GEL
Connecticut	PH -0169
Dept. of Navy	NFESC 413
EPA Region 5	• WG -15J
Florida - NELAP	E87 156
Georgia	E8715 6 (F L/NELAP)
Georgia DW	9 67
Hawaii	N/A
ISO 17025	. 2567 .01
Idaho	SC00012
Illinois – NELAP	200 029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90 129
Louisiana - NELAP	0 3046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey - NELAP	SC002
New Mexico	FL N ELAP E87156
New York - NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania - NELAP	6 8-00 485
South Carolina	10120 001 /10120002
Tennessee	TN 02934
Texas - NELAP	T1047 0423 5-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah - NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641



a member of The GEL Group INC



www.gel.com

PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

August 11, 2008

Mr. Moises Carvalho TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California 94105

Re: Humboldt Bay NPP Project 161072, Task 2400

Work Order: 213274

Dear Mr. Carvalho:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 18, 2008. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Stanley

Project Manager

Purchase Order: Agreement No: GELL-Enclosures

Page: of	Ì	GEL Ch	•		,			_	_	cal	Re	qu	est		20 Ch Ph	40 Sav narleste ione: (1	poratorie vage Ro on; SC 1 843) 55 3) 766-	ad 19407 6-8171	·	
Client Name: TRC			Phone #: L	115-(,44 - :	3000			Sam	ple A	nalysi	s Re	quest	ed ⁽⁵⁾ (1	Fill in	the n	umber	ofcon	tainers for eac	th test)
Project/Site Name: HBPP			Fax #: 41	5-5	11-9	378	Shou	ıld this	ners					1			T	1	< Prese	rvative Type (6)
Address: 55 2nd St., Suite 5	75. San	Francisc	p 94	105				ple be i idered:	ontai	\neg		4								
Collected by: K. Gillis		s To: Mcar			5 d. t	insec	<u></u>	2	er of			8	/						1	omments xtra sample is
Sample ID * For composites - indicate start and stop date		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Cod	Field	T	ا اؤ	ISCA Regulated	Total numbe	P-Hdl	SVOCS	CAM-17	65-137						require	ed for sample ecific QC
B-34-4.0		7/16/08	14:10_	G-	MA	50	-	ļ	-2	-X-	X									
B-34-1.0 Gamma			14:10	Ĭ	1		11		1				X							
B-34- 4.0			14:25				Π	1	a	X	X	<u>—</u> Х								
B-34-4.0 Gamma			14:25			11	11		1				X							
B-34-8.0			14:35				Π		a	人	人	人						1		
B-34-8.0 Ganna			14-35						1				人							
P5-23AC-1.0		RO	5:30	11	11	11	11	1	a	义	X	义						-		
P5-23AC-1.0 Gama		Kij	HINES	11	11	11	11	1	1				X							
PS-23AC-4.0		6	15:45		1-1		\top		2	×	×	X								
P5-23AC-4-4, Gamma			1000	<u> </u>	1		1		T				X							
TAT Requested: Normal: Rush: X Remarks: Are there any known hazards a All metals were field	applicable to	(Subject to Surch these sample:	arge) Fax R	esults: ease li	Ye st the ho	es / azards	((B)	С	ircle D	eliver	ible:					<u>S:</u> (mple (Eastern Central Mounta	Other	evel 3 / Level 4
Ch Relinquished By (Signed) Date Tir		dy Signatures Received by (signed)	Date	Tim							· _ 1		nple Sl	ippir	ig and	l Deliv	ery D	etails	
1 Kyle Hillis 7/17/08	15:02	mle	Karl	/	18-0 ₈	_	915		L PM			-Eed	ran!	<u>сү</u>		Date S	Shipped	7	117/08	
2		2						Airt	bill#:	<u>.</u>										
3		3						Airl	bill#:		<u> </u>				·					
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = F 3.) Field Filtered: For liquid matrices, indicate with a - Y - fo 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, 5.) Sample Analysis Requested: Analytical method requested 6.) Preservative Tyne: HA = Hydrochloric Acid, NI = Nitric	or yes the sample w SW=Surface Wate I (i.e. 8260B, 6010	as field filtered or - : r. WW=Waste Wate B/7470A) and numb	N - for sample er, W≃Water, S er of containen	was not fic O=Soit, S provided	ild filtered. D=Sedimen for each (i.	nt. SL=Slu .e. <i>8260B</i>	dgc. SS= - 3, 6011	=Solid W	/usic. O=	-Oil, F=	Filter, P	=Wipe	, U=Uri						Custody YES	Seal Intact? NO ler Temp: C

Cist. Quote #;	GEL Ch		Cus	stody	y and	l A	nal	lyti	cal	Re	qu	est		20 C: P!	040 S harles hone:	abora avage ston, 5 (843) 343) 7	Road SC 29	407 8171	
Chent Name: TAC		با : Phone #	115 6	44-3	000			Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾ (Fill in	the	numb	er of	contai	ners for each test)
Project/Site Name: HBPP		Fax #: 419	5 - 54	11-93	78		ld this	containers											< Preservative Type (6)
Address: 55 2nd st., Suite 575, S	an Franci	sw, CA	, 9	4105			dered:	of cont			Metals								Comments
•	ts To: mcaru				s. com		Pied Pied		ابــ ا		٤	-137				Ì			Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time	QC Code		Sample	N S	TSCA Regulated	Total number	p-401	Svocs	CAM-17	C5-			·				required for sample specific QC
B-26-40	7/16/08	-16:05-	G.	NA-	50	\mathcal{N}		2	X .	Х.	Χ.								
B-26-1.0 Gamma		16:05						1				X							
8-26-4.0		16:20						2	X	Х	X								
B-26-4.0 Canna	\ \	16:30						1				×							
8-25-1.0	7117108	8:30			IT	L		g	X	X	X								
B-25-1.0 Gamma		8-20	П		17.	\prod		1			•	X							
8-25-4.0		8:45			T	П		2	X	义	Х								
B-25-4.0 Gamma		8:45	-	\prod				1				χ							
B-22-1.0		9:00		17		\prod		g	X	X	X								
B-22-1.0 Gamma	V	9:00	J	V	V	V		1				X							
TAT Requested: Normal: Rush: X Specify: 48	11-(Subject to Surcha	rge) Fax Re	sults:	Yes		_ (N	<u></u>	Ci	rcle D	eliver	ble: (CofA	/ Q0	Sum	nary	/ L	evel l	Δí	vel 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to	these samples	? If so, ple	ase lis	t the ha	zards					 .·		•	,				Eas Cer	ple Col stern ntral ountain	lection Time Zonc Pacific Other
Chain of Custo													iple St	ippin	g an	d De	liver	y Deta	ils
Relinatished By (Signed) Date Time	Received by (si	gned)	Date	Time	•		GEL	PM:		<u> </u>		st _a	nley		· _				<u> </u>
Kyle Hellin 7/17/06 15:00	! Phos K	alm	7-18	118	091-	<u> </u>	Meth	od of S	hipme	n: F	ed	e×_			Date :	Shipp	ed:	71	17/08
	2						Airbi												
3. Others of Custody Number = Client Determined	[3	•				-	Airbi											T	For Lab Receiving Use Only
 ()(C) c odes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, Ef () chain: Filtered: For liquid matrices, indicate with a - Y - for yes the sample with Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water 	as field filtered or - N	- for sample w	as not field	d filtered.									c. F=Fec	sl. N=Na	sut				Custody Seal Intact? YES NO
Samu-le Analysis Requested: Analytical method requested (i.e. 8260B. 6010 Samu-le Analysis HA = Hydrochloric Acid. NI = Nitric Acid. SH = Sodium WHITE = LABOR	B/7470A) and number Hydroxide, SA = Su	of containers p Turic Acid, AA	orovided (i = Ascarb	or each (i.e. ic Acld, H?	. 8260B - 3	. 60106 . ST = S	V7470A	- 1). Thiosull	ate, If n	*	vative is								Cooler Temp:

Page: 3 of 4 Project #: \6\072 GEL Quote #: COC Number (1): PO Number: \6\073	GEL Work			ain of	Cus	to	dy	anc	i A	nal	yti	cal	Re	qu	est		2	040 S Charles Phone:	aborate avage ston, S (843)	Road C 294 556-8	10,7 31,71	
Client Name: TRC				Phone #: V	か-	64U	1-39	000			Sam	ple A	nalys	is Re	quest	ed ⁽⁵⁾ (Fill i	n the	numbe	er of	contaii	ners for each test)
Project/Site Name: HBPP				Fax#: W	15-5	41-	- 93	78	1	ld this	ners											< Preservative Type (6)
Address: 55 and St., Suite 5	575 , Sa	n F	مردة '	sco, CA	qL	105	5			ple be dered:	f containers			Metals								Comments -
Collected by: K. 6'11's	Send Results	s To: ^	ncari	ralho Q	tres	નાન	tion	5.CM		ited	ber o	ابدا	\sim		_			}				Note: extra sample is
Sample ID * For composites - indicate start and stop date.		*Date C		*Time	QC Code	l'i	eld	Sample Matrix 14	active	TSCA Regulated	Total number	TPHA	5VOCS	CAM-17	C5-137							required for sample specific QC
B-22-4.0		-74	7108	9.20	G	A	rA-	50	N		3	X	4	1				.				
B-22-4.0 Gamma				9:20	П				1		1				X							
B-27-1.0	·			9:35					\prod		9	X	*	X					,			
B-27-1-0 Gamma				9.35					\prod		1				X							
B-27-4.0				9:45							3	X	1	X								
B-274.0 Gamma				9:4:5					11		1				1							
B-21-1.0			\	10.10					\prod		2	X	×	X			-					
B-21-1-0 Gama				10:10							1				X							
B-21-4.0				10:30					11		3	X	×	×								
B-21-40 Gamma				10:30			J		N		1	1			×			·				
TAT Requested: Normal: Rush: X Remarks: Are there any known hazards of All metals were field	applicable to	these .	samples	rgu) Fax R	esults: ease li	st th	Yes e haz		(NO)	C	ircle [)eliver	able:	C of	A / Q	C Su	nmary	<u> </u>	Sam Eas Cei	ple Co stern ntral	lection Time Zone Cacific Other
Cl	ain of Custo	dy Sign	atures							$oxed{\Box}$						mple S	hipp	ing a	nd De	liver	y Deta	ils
Relinquished By (Signed) Date Tit	•	Rece	ived by (s	igned)	Date		Tunc			GE	L PM	<u>: </u>	چ ښ	्र	<u>con 1</u>	ey_						
1 Kyle Klibro 7/17/08	15:00	M	e f	who 7	-89	13		215		Mel	hod of	Shipm	ent:	Fed	ex			Date	Shipp	ed:	71/	7108
2		2	·							Air	bill #:											
3 1.) Chain of Custody Number = Client Determined		3								Air	bill#:		 -									For Lab Receiving Use Only
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = 3.) Field Filtered: For liquid matrices, indicate with a - Y - Ii 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, 5.) Sample Analysis Requested: Analytical method requester.	or yes the sample w SW=Surface Wate	vas field fi :r. WW≃\	liered or - I Vaste Wate	N - for sample v r. W≠Water, Si	vas not lie O=Soil, S	eld fili D=Se	ered. diment	. SL=Slu	dge. SS	≖Solid ₩	astc. O					inc, F≕Fc	cal. N	-Nasal				Custody Seal Intact? YES NO Cooler Temp:
6.) Preservative Type: HA = Hydrochloric Acid. NI = Nitric	Acid SH = Sodium	n Hviliari	de SA = S	divic Acid A	A = A<00	rbic A	cid. H)	(≃Heva	ne ST	Sodium	Thiosu	liste, lf	no prese	ervative	is adde	d = leave	field h	lank ·			1	<u>4</u> c

YELLOW = FILE

PINK = CLIENT

WHITE = LABORATORY

Page:	GEL Ch		Cus	stody	y and	d A	na	lyti	cal	Re	equ	est		2 C 1	2040 S Charle Phone	Savag eston, e: (843	atories e Road SC 29 () 556-	407 8171	
Chent Name: TRC		Phone #: 4	115-6	544 -	3000			San	iple A	nalys	is Re	quest	ed ⁽⁵⁾ (Filli	n the	num	ber of	conta	iners for each test)
Project/Site Name: 4899		Fax #: 41	5-54	1- 93	78		ld this	ners											< Preservative Type (6)
	, San Franc	isco, CA	+ 94	1105			ple be dered:	្រ			يتواد								
7	Results To: mcar				(2)		2	er of			Metals			Ì					Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	1	Sample	Radiosctive	TSCA Regulated	Total number of	P-401	Svacs	CAM-1)	(5-137							required for sample specific QC
0/26-B	7/11/00	11:40 ···		.NA	50	N	I	3	-X	X.	X				-				
B-23-1.0 Gamma	[·	11:10				1		i				×							
6-23-40		11:35				П		3	بر	×	×								
8-23-40 Gamma		11:35		V		11		1				メ							
8-21-6w		10:45		Y	600			3	人	X	×								
B-23-6W		13:00	V	Y	GW	V		3	X	×	火	-							
															•				
															_				
IAI Requested: Normal: Rush: X Specify	18 ha (Subject to Surch	arge) Fax R	esults:	Yes	. /		ig .	C	ircle D	eliver	able: (C of A	/ QC	Sum	mary	/ L	evel 1	16	evel 2 / Level 4
Remarks: Are there any known hazards applica	le to these sample.	s? If so, ple	ease lis	t the ha	zards												Sam Eas Cer	ole Col tern itral untain	estion Time Zons Cacino Other
	ustody Signatures												ple Sh	ippir	ng an	ıd De	livery	Deta	ils .
Relinvalished By (Signed) Date Time	Received by (s	- '//	Date	Time	:		GEI	L PM:	· · ·	Eria		nate	ley						
Myle 11 7/17/08 15:00	Mes	My .	7-18	48	091	5	Meth	nod of S	Shipme	nt: j	Fede	Х			Date	Shipp	ed:	711	7/68
<u> </u>	2			<u> </u>	<u> </u>	-	Airb	ill #:				·	•						
Chan of Custody Number - Client Determined	3		· · · · · ·		 -		Airb	ill #:		-	·							T	Soul of Burney 11 0
2) Of Codes: N = Normal Sample, TB = Trip Blank, FD = Field Dupl control i litered: For liquid matrices, indicate with a - Y - for yes the s 4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surfit 5) Sample Analysis Requested: Analytical method requested (i.e. 8266 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH • WHITE = L/	nple was field filtered or - file Water, WW=Waste Water, 6010B/7470A) and numbosodium Hydroxide, SA = Sc	l - for sumple w r. W=Water, SC er of containers p alluric Acid, AA	as not ficto =Soil, SD provided fo = Ascorbi	1 filtered. =Sediment, or each (i.e.	SL=Sludg 8260B - 3	c. SS=S 5. 60108 . ST = S	olid Wa	uste, O=0 - 1). Thiosulf	Oil, F=F	ilter, Pr	=Wipe, 1	U=Urin				_			For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp:

Page: of 7 Project #: \6\072 GEL Quote #: COC Number: \6\072 Client Name: TRE	1	EL Cha					i A	nal								GEL L 2040 S Charle Phone: Fax: (8	Savage eston, S : (843) 843) 7	Road SC 294) 556-1 66-11	1 407 8171 78	iners for each test)
									N	pie A	ilatys	15 Kc	quest	eu	(1111)		1141111	10 136	COma	mers for each test)
Project/Site Name: HBPP	·	·	Fax #: 419	5 -54	1-93	78	•	ld this pie be	container											< Preservative Type (6)
Address: 55 and 5t Suite 57	5. SF. CA	94105					l .	dered:	cont			Metal				1				-
Collected by: M. Sellwood	Send Results	To: Mcaru	Jho @ #	250 ha	n'a 15- 6	on		9	er of	Q	CS		1 [17]							Comments Note: extra sample is
Sample ID *For composites - indicate start and stop date!		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code		Sample	Radioactive	TSCA Regulated	Total number	TPH-d	340	CAM-17	Cs-1					Í		required for sample specific QC
B-33-0.5	do	7/16/08-	1315	6	NA	5	N		2	X	X	X								
8-33-45		1	1325	1	1	1	İΤ		2	X	Ź	V								
			1315				11.		1				X							
B-33-05 gamma B-33-45 gamma		4	1325	J	V	1	11		1				X							
PS-11C-0.3			1345	1	1	1	Π		2	X	X	X								·
PS-11C-1.5			1355				H	1	2	X	X	X								
		•	1345						1				X							
PS-11C-0.3 gamma PS-11C-1.5 gamma		V	1355	V		V							X							
13-19-0.5		1	1450						2	X	X	X				<u>.</u>	<u> </u>			
B-19-4.5		V	1515	V	V	V	V		2	X	X	X								
TAT Requested: Normal: Rush: X Remarks: Are there any known hazards a All netals were fiel	pplicable to t d f, Her	hese samples L (Gw)			Yes t the ha			(i)	<u> </u> c	ircle E	Deliver	able:				nmary		Sam Eas Cer Mo	ple Co stern ntral ountain	
	ain of Custod		d\	Date	Time			-							Shipp	ing ar	nd De	liver	y Deta	ails
Relinquished By (Signed) Date Tim M. (] [] [] [] [] [] [] [] [] [] [] [] [] []	530	Received by (si	gnea)		B 08	7.00	715		L PM			Feb	Star Lex	lex -		Date	Ship	ped:	7/	17/68
2		2				·		1	ill#:											
3		3						Airt	ill #:										·	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = F	ield Duplicate, EB	• Equipment Blank,	MS = Matrix	Spike San	ipic. MSD :	• Matrix S	pike Du	plicate S	iample.	G = Gr	ab. C =	Compo	iite							For Lah Receiving Use Only
3.) Field Filtered: For figuid matrices, indicate with a - Y - for 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S	r yes the sample was	field filtered or - N	- for sample w	ras not fiel	d filtered.									nc, F=):	ecal. N=	Nasni				Custody Seal Intact? YES NO
Sample Analysis Requested: Analytical method requested Personative Type: HA = Hydrochloric Acid, NI = Nitric A	(i.e. 8260B . 6010B	/7470A) and numbe	r of comainers	provided (or each (i.e	. 8260B -	3. 6010	B/7470A	- 1),											Cooler Temp:

Page: 2 of 9 Project #: 161072 GEL Quote #: COC Number (0): PO Number: 161072	GEL Ch		Custo	dy an	d A	na							2040 Charl Phon Fax:	Laborat Savage leston, S e: (843)	Road 6C 2940 556-81 56-1178	7 71	
Client Name: TRC		Phone #: 415	-644-	3000			San	ple A	nalys	is Rec	queste	d ⁽⁵⁾ (1	ill in the	e numb	er of co	ontaine	rs for each test)
Project/Site Name: #BPP		Fax #: 415-	-541-	9378	1 -	ld this	containers			-							< Preservative Type (6)
Address: 55 and St., Suite 575,	SF, CA 9	4105			consi	dered:				et a							Comments
!	sults To: mcane		عاملاهج	Lam		fed	ber o	7	~	立	37						Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time	Code Fic	ld Sample		TSCA Regulated	Total number of	b-HOT	SVOCS	CAM-17 mets	7						required for sample specific QC
B-19-0.5 gamma	07/16/08	1450 6	7-10	1 5	N		1				X						
B-19-4.5 gamma		1515					1				\times						
PS-23BC-0.5		1540					2	X	X	X							
PS-23BC-D.5 gamma		1540		/ 1	\prod						X					-	·
B-29-0.5	17/17/08	0 825	1	1	\prod		2	X	\boxtimes	X							
B-29-4.5	1	0835			\prod		2	X	X	X							
!		0825			П						X						
B-29-0.5 gamma B-29-4.5 gamma	1	0835		1 1	П		1				X						
B-29-gw	1	0855	VY	W	TL		3	X	X	X							
PS-20C-0.3	1	0900	LN	A S	TV		2	X	\searrow	X							
TAT Requested: Normal: Rush: X Specify: 16	hr. (Subject to Surch		lts:	Yes /	Q	D	С	ircle D	eliver	able: (C of A	/ QC	Summar	y / Le	vel 1 1	/ Le fe	12 / Level 3 / Level 4.
Remarks: Are there any known hazards applicable All metals were field filter	to these samples	s? If so, pleas	e list the	hazards				•							Sample Easter Centra Moun	rn al	tion Time Zone Pacific Other
· · · · · · · · · · · · · · · · · · ·	tody Signatures										Sam	ple Sh	ipping a	nd Del	ivery [Details	
Refunquished By (Signed) Date Time	Received by (s	1//		me			L PM:		<u> </u>			<u> </u>					
MA 11/08 1530	1 Miles	Kalus	7-18-0	8 09	1/5	Meth	hod of S	Shipme	ent:	Peda	×		Dat	e Shippe	ed:	דווד	(वर्ष
1)	2	· · · · ·				7	oill#:							·	, 		
13 15 15 15 15 15 15 15							oill#:			···			····			For	r Lah Receiving Use Only
23. OC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate 3. Frend Filtered: For liquid matrices, indicate with a - Y - for yes the sample 4.3 Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface W	le was field littered or - f	V - for sample was n	ot field filtere	d.								, F=Feca	I, N=Nusal		}		Custody Seal Intact? YES: NO
> 3 Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6) ### Physical Hall Physical Method requested (i.e. 8260B, 6) ###################################	0108/7470A) and numbe lium Hydroxide, SA = Se	er of containers prov Afuric Acid, AA = /	ided for each	(i.c. 8260B • . HX = Hexan	3. 6010	B/7470A	(- I). Thiosul	faic, If n		valive is							Copler Temp:

PO Number: 161072	GEL Cha		Cust	tody	and	l An	al	ytio	cal	Re	qu	es	t		2040 Char Phor	Savag leston, ic: (84)	atories ge Road SC 29 3) 556- 766-11	d 9407 -8171	
Client Name: TPC	·	Phone #: 415	-64	4-30	0්ට			Sam	ple A	nalys	is Re	que	sted (⁵⁾ (Fi	ll in th	e num	ber of	conta	iners for each test)
Project/Site Name: HBPP		Fax #: 415	-541	- 937	8	Should		containers											< Preservative Type (6)
Address: 65 2nd st., Shite 575,	SF, CA 94105					conside	- 1	cont		•	Skis								
	esults To: M carva		حابا	inns (200		E	er of	B	n	i de ₹	1	H						Comments Note: extra sample is
Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected QC	Code	Field Filtered ⁽³⁾	Sample	Radioactive	TSCA Regulated	Total number	B-HGT	SV065	(AM-17 metels	7)						required for sample specific QC
PS-20C-4.5	07/17/08	0910 6	á	4H	S-	N		2	X	X	X								
PS- 20C-0.3 gamma		0900	1									X							
PS-20C-4,5 gamma	1	0910		1	1					L	· ·		1	L					
B-28-0.5		0940					1	2	X	X	X						1		
8-28-45		1000						2	X	X	X	1_				_		<u> </u>	
B-28 - 0.5 gamma		0940						1			· _		1_				<u> </u>		
B-28 - 0.5 gamma B-28 - 4.5 gamma	\bigvee	1000	V		V			1				X							
B-24-05		1015			1.			2	\times	\geq	$1\times$		1				1.	<u> </u>	
B-24-4.5		1040			l			2	X	X	X	1							
B-24-0.5 gamma	1	1015			<u> </u>	V	1					\geq							
TAT Requested: Normal: Rush: X Specify:	17 K. (Subject to Surchar	ge) Fax Resu	lts:	Yes	1	No.	<u> </u>	Ci	rcle D	eliver	able:	C of	'A /	QC S	umma	ry /	Level	1 / 6	ever / Level 3 / Level 4.
Remarks: Are there any known hazards applicated All metals were field f	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	? If so, pleas	se list	the ha	zards		-				.*						Ea	stern steral	Olhection Time Zone Pacific Other
						 i		<u>:</u>						Ch.		d D		ountair	
Relinquished By (Signed) Date Time	ustody Signatures Received, by (signature)	gned) Dat	te	Time		·				=					ping	and D	eliver	y Det	4112
mil filled 07/17/08 15	io while	mlore 7	1-18.	28	09)		_	. PM: .od of S			Fed		nles	<u> </u>	Da	te Ship	ped:	7.	111/08
2	2	· · · · · · · · · · · · · · · · · · ·	<u> </u>				Airbi		<u></u> t										
3	3						Airbi												
1.) Chain of Custody Number = Client Determined	· ·						·												For Lah Receiving Use Only
 2.1 OC Codes: N = Normal Sample, TB = Top Blank, FD = Field Duplic 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the same 					Matrix Sp	ike Dupli	cate Sa	ample. (G = Gra	b, C ≈ (Compo	site		•				-	Custody Seal Intact?
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surfac	e Water, WW=Waste Water.	W=Water, SO=S	oil, SD=	Sediment,					Oil. F.≃	Filier, P	eWipe	. U=U	rine, F	≠Fecal.	N=Nasa	;			YES NO
 5.) Sample Analysis Requested: Analytical method requested (i.e. 82601 b.) Preservative Type: HA = Hydrochloric Acid. NI = Nitric Acid. SH = 									ate, Il'r	io prese	rvative	is add	ed = lei	ave liele	i blank				Cooler Temp:

PO Number: (VIO)	GEL Ch		Cus	stody	y and	l A	nal	lyti	cal	Re	equ	est			GEL L 2040 S Charle Phone Fax: (S	Savago ston. : (843	e Road SC 29) 556-	407 8171	
Client Name: TRC		Phone #: 4	15-6	44-3	<i>800</i>			San	iple A	nalys	sis Re	quest	ed ⁽⁵⁾	(Fill	in the	numl	ber of	`conta	iners for each test)
Project/Site Name: #BPP		Fax #: 4	15-5	41-9	578		ld this	iners											< Preservative Type (6)
Address 55 2nd st. Site 575, 5	F, CA 94h	, 5					ole be dered:	f container:			Meta								Comments
	ults To: marv		rsol	tions	سرن		ie d	ber 0		<u>ب</u>					}				Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	e Field	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	B-HOT	SVOCS	F1-m67	Cs -137	·						required for sample specific QC
B-24 - 4.5 gamma	07 17/08	1040	6	AK	S	W						X							
PS-2K- 0.3		1115						2	\boxtimes	X	X								
PS-21C-4.5		1230						2	X	\geq	X								
PS-21C-03 gamma		1115						1				X							
PS-21C-0.3 gamma PS-21C-4.5 gamma	V	1230	1	1	V	W		1				X							
J				<u> </u>				<u> </u>								l			
						L				L									
									<u> </u>					<u> </u>					
·										<u> </u>									
TAT Requested: Normal: Rush: X Specify.HS	K. (Subject to Surch	arge) Fax Re	sults:	Ye	. /	Ø	۹	Ci	rcle D	eliven	able:	C of A	. / Q	C Sur	nmary	_ / L	evel i	/ €	vel Level 3 / Level 4.
Remarks: Are there any known hazards applicable All needs were field file			ease lis	st the ho	zards							<u>-</u>					Sam Eas Cer		lection Time Zone acid Other
	tody Signatures											San	nple S	hippi	ing an	d De	livery	Deta	ils
Reimquahed By (Signed) Date Time	Received by (s	1/	Date /	Time				. PM:			Λ ²	hote	ey						
ML UL 07/17/08 153	D! The			7-18-0	80	915	Meth	od of S	hipme	nt:	<u>ed</u>	C.X			Date	Shipp	ed:	7/	17/08
4	2						Airbi	ill #:							· ·				
	3						Airbi	ill #:	<u>. </u>		· ·	- ,						1	r . I . I Daniel
1: OC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, 5: Field Fibered: For liquid matrices, indicate with a - Y - for yes the sample 5: Manus Codes: DW=Drinking Water, GW=Groundwater, SW=Surface W	e was field filtered or - h	l - for sample w	as not fiel	ld filtered.									ic. Felfo	cal. N≖	Nasai			-	For Lah Receiving Use Only Custody Seal Intact? YES NO
An Sample Analysis Requested: Analytical method requested (i.e. 8260B. 60 a.g. Preservance Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sod WHITE = LABO	110B/7470A) and numb ium Hydroxide, SA = St	r of containers	provided I — Ascort	for each (i.e	. <i>8260B - 1</i> K = Hexane	. 6010E	V7470A	- 1). Thiosulí		io presei	rvative i								Cuoler Temp:

GEL	Laboratories	LLC	
	Caparatorion	CLO	:

SAMPLE RECEIPT & REVIEW FORM

Clie	ent: TRC			SDG/ARCOC/Work Order: 212231, 212238, 212233
Rec	eived By:			Date Received: 7-13-08
Sus	pected Hazard Information	Yes	ž	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
	//Samples marked as radioactive?	/		Maximum Counts Observed*: Offm 40
Clas	sified Radioactive II by RSO?		V	
CO	//Samples marked containing PCBs?			
Ship	ped as a DOT Hazardous?		1	Hazard Class Shipped: UN#:
Sam	ples identified as Foreign Soil?		/	
	Sample Receipt Criteria	Yes	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)?			Preservation Method: (ice bags blue ice dry ice none other (describe) 46
3	Chain of custody documents included with shipment?	V		
4	Sample containers intact and sealed?			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	1		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	1	1	Sample ID's and containers affected:
7	Are Encore containers present?		t	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?			ld's and tests affected:
4 1	Sample ID's on COC match ID's on pottles?			Sample ID's and containers affected:
	Date & time on COC match date & time on bottles?	1		Sample ID's affected:
	Number of containers received match umber indicated on COC?			Sample ID's affected:
	COC form is properly signed in elinquished/received sections?			
mme	nts:			
	FX 7º	753	•	1706 4710 4683 4709 4731 4720 4742 4694
	PM (or PMA) review: Initials	:	(9MS Date 1/8/08

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Certificate of Analysis Report for

TRCS002 TRC Solutions

Client SDG: 213274 GEL Work Order: 213274

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Stanley.

Vin Maules

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

Client Sample ID: Sample ID:

B-24-4.5 Gamma 213274001

Project: Client ID:

TRCS00200 TRCS002

Report Date: August 11, 2008

Soil

Matrix: Collect Date: Receive Date:

17-JUL-08 10:40 18-JUL-08

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time Batc	h Metho
Rad Gamma Spec Analysis										
Gammaspec, Gamma, Solid	"Dry Weigh	nt Corrected"						,		
Actinium-228	UI	0.00	+/-0.357	0.324		pCi/g		МЛН1 08/07/08	1405 781879	1
Americium-241	. U	-0.0245	+/-0.059	0.0818		pCi/g	•			
Antimony-124	U	0.026	+/-0.142	0.240		pCi/g				
Antimony-125	U	0.0368	+/-0.139	0.222		pC i/g		••		
Barium-133	U	0.0427	+/0.0705	0.0998		pC i/g				
Barium-140	U	0.289	+/-0.456	0.769		pC i/g				
Beryllium-7	U	-0.195	+/-0.499	0.796		pC i/g				
Bismuth-212	U	0.311	+/-0.467	0.767		pC i/g				•
Bismuth-214	UI	0.00	+/-0.232	0.249	•	pC i/g				
Cerium-139	U	-0.0109	+/-0.0349	0.0522		pC i/g		¥		
Cerium-141	U	0.0285	+/-0.0859	0.123 `		pC i/g				
Cerium-144	U	-0.232	+/-0.214	0.303		pC i/g				
Cesium-134	U	-0.0103	+/-0.0597	0.093		pC i/g	•	•		
Cesium-136	U	-0.074	+/-0.231	0.364		pCi/g				
Cesium-137		1.23	+/-0.206	0.0872	0.100	pCi/g				
Chromium-51	· U	0.456	+/-0.580	0.963		pCi/g				
Cobalt-56	U	0.0501	+/-0.063	0.111		pCi/g				
Cobalt-57	U	-0.03	+/-0.0258	0.0368		pC i/g				
Cobalt-58	U	-0.0239	+/-0.0669	0.102		pCi/g		4		
Cobalt-60	U	-0.0273	+/-0.0607	0.0953		pCi/g				
Europium-152	U	-0.0119	+/-0.145	0.200		pCi/g				
Europium-154	U	-0.021	+/-0.184	0.291	•	pCi/g				
Europium-155	U	-0.0637	+/-0.0968	0.145	•	pCi/ g				
Iridium-192	U	-0.0351	+/-0.049	0.0741		pCi/g				
Iron-59	U	0.0447	+/-0.156	0.261	•	pCi/g				
Lead-210	U	0.521	+/-0.950	0.725		pCi/g				
Lead-212		0.456	+/-0.128	0.118		pCi/g				
Lead-214		0.442	+/-0.144	0.154		pCi/ g				
Manganese-54	U		+/-0.0578	0.0915		pCi/g				
Mercury-203	U	-0.0488	+/-0.0556	0.0839		pCi/ g				
Neodymium-147	U	0.0155	+/-1.09	1.79		pCi/ g				
Neptunium-239	U	-0.162	+/-0.190	0.279		pCi/ g				
Niobium-94		-0.00447	+/-0.0574	0.0913		pCi/ g				
Niobium-95	Ū		+/-0.0899	0.133		pCi/ g				
Potassium-40	-	9.02	+/-1.50	0.884		pCi/ g				
Promethium-144	U		+/-0.0604	0.101		pCi/ g				
Promethium-146	Ū		+/-0.0645	0.0979		pCi/g			•	

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Report Date: August 11, 2008

Certificate of Analysis

Company: TRC Solutions, Inc.

Address:

55 2nd Street, Suite 575

San Francisco, California 94105

Contact:

Mr. Moises Carvalho

Project:

Humboldt Bay NPP Project 161072, Task

2400

	Client Samp Sample ID:	ole ID:	B-24-4.5 Ga 213274001	mma		Projec Clien		TRCS00200 TRCS002			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysi	is										
Gammaspec, Gamma, Solia	l "Dry Weigh	t Corrected"									
Radium-226		0.345	+/-0.232	0.154		pCi/g ·					
Radium-228	UI	0.00	+/0.357	0.324		pCi/g			•		
Ruthenium-106	U	-0.191	+/-0.479	0.747		pCi/g					
Silver-110m	U	0.0353	+/-0.0627	0.093		pCi/g					
Sodium-22	U	-0.00755	+/-0.066	0.105		pCi/g					
Thallium-208		0.122	+/-0.0854	0.0879		pCi/g					
Thorium-230		0.345	+/-0.232	0.154		pCi/g					(
Thorium-234	U	0.602	+/-1.17	0.824		pCi/g					'
Tin-113	U	-0.0209	+/-0.0647	0.099		pCi/g					
Uranium-235	U	0.261	+/-0.246	0.319		pCi/g					
Uranium-238	U	0.602	+/-1.17	0.824		pCi/g					
Yttrium-88	U	-0.0426	+/-0.0588	0.0793		pCi/g					
Zinc-65	U	-0.0374	+/-0.137	0.215		pCi/g	•				
Zirconium-95	· U	-0.0359	+/-0.123	0.191		pCi/g					

The following	Prep Meth	ods were pe	erformed

Method	Description	Analyst	Date	Time	Prep Batch	
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	07/22/08	1137	781754	

The following Analytical Methods were performed

Method	Description	,	Analyst Comments		
1	EML HASL 300, 4.5.2.3			•	

QC Summary

Report Date: August 11, 2008

Page 1 of 8

TRC Solutions, Inc. 55 2nd Street, Suite 575 San Francisco, California

Contact:

Mr. Moises Carvalho

Workorder:

213274

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gamma Spec									
Batch 781879									
QC1201639219 213274001 DUP					•				
Actinium-228	UI	0.00	UI	0.00	pCi/g	18		N/A MJH1	08/08/08 08:21
		+/-0.357		+/-0.279				•	
Americium-241	U	-0.0245	U	-0.0242	pCi/g	1		N/A	
		+/-0.059		+/-0.147	1				
Antimony-124	· U	0.026	U	0.0494	pCi/g	62		. N/A	
	,	+/-0.142		+/-0.0687				S.11.	
Antimony-125	U	0.0368	U	0.0619	pCi/g	51		N/A	
n :	•	+/-0.139		+/-0.0993		50		21/4	
Barium-133	U		, U	0.0236	pCi/g	58		N/A	
B : 140	**	+/-0.0705		+/-0.0505	0.7	4.5		21/4	
Barium-140	U	0.289	U	0.183	pCi/g	45		N/A	
D. 11: 7	7.7	+/-0.456		+/-0.391	G:1	60		21/4	
Beryllium-7	· U	-0.195 +/-0.499	U	-0.398	pCi/g	68		N/A	
Bismuth-212			7.7	+/-0.398	-C:/-	. 44		N/A	•
Bismutn-212	U	0.311 +/-0.467	U	0.199	pCi/g	44		IN/A	
Bismuth-214	UI		1 17	+/-0.341	nCi/n	21		N/A	
5181114111-214	Oi	0.00 +/-0.232	UI	0.00 +/-0.124	pCi/g	21		IN/A	
Cerium-139	U	-0.0109	U	-0.00143	pCi/g	154		N/A	
·	C	+/-0.0349	U	+/-0.0252	perg	154		14//1	
Cerium-141	U	0.0285	U	0.0332	pCi/g	15		N/A	
	<u> </u>	+/-0.0859	Ü	+/-0.0563	pors	••			
Cerium-144	U	-0.232	U	-0.073	pCi/g	104		N/A	
	-	+/-0.214	Ü	+/-0.181	POUR				
Cesium-134	U	-0.0103	U	0.00798	pCi/g	1570		N/A	
		+/-0.0597		+/-0.0429	Poss				
Cesium-136	U	-0.074	U	0.0295	pCi/g	465		N/A	
	_	+/-0.231		+/-0.163	P8				
Cesium-137		1.23		1.20	pCi/g	2	(()% - 20%)	
	•	+/-0.206		+/-0.147	Pers	_			
Chromium-51	U	0.456	U	-0.43	pCi/g	6810		N/A	
		+/-0.580		+/-0.446	1025				
Cobalt-56	U	0.0501	U	-0.00669	pCi/g	262		N/A	
·		+/-0.063	•	+/-0.0435	r 8				
Cobalt-57	U	-0.03	U	-0.0122	pCi/g	84		N/A	
		+/-0.0258	•	+/-0.0198	1 - 0				
obalt-58	U	-0.0239	U	0.0368	pCi/g	944		N/A	•
	• -	+/-0.0669	-	+/-0.0514	1 0	•			
Cobalt-60	Ū	-0.0273	U	-0.00413	pCi/g	148		N/A	
		+/-0.0607		+/-0.0411	. 3				

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QC Summary

Workorder:

213274

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gamma Spec				,					
Batch 781879									
Europium-152	U	-0.0119	U	0.00413	pCi/g	412		N/A	
		+/-0.145		+/-0.0981					
Europium-154	U.		U	-0.0795	pCi/g	116		N/A MJH1	08/08/08 08:21
-		+/-0.184		. +/-0.120			*		
Europium-155	U	-0.0637	U	0.0755	pCi/g	2370		N/A	
	•	+/-0.0968		+/-0.087					
Iridium-192	. U	-0.0351	U	0.0117	pCi/g	400		N/A	
		+/-0.049		+/-0.0367					
Iron-59	υ	0.0447	U	-0.0472	pCi/g	729 0	,	N/A	
1 1 210	บ	+/-0.156 0.521	11	+/-0.0984	C:1-	99		N/A	
Lead-210	U	+/-0.950	U	1.54 +/-4.81	pCi/g	99	•	. IN/A	
Lead-212		0.456	UI	0.00	pCi/g	29	((0% - 100%)	
Leau-2.2		+/-0.128	0,	+/-0.138	perg	2,		7,0 7,0070)	
Lead-214	•	0.442		0.318	pCi/g	33	((0% - 100%)	
		+/-0.144		+/-0.128	, F0		`	,	
Manganese-54	U.	-0.0285	U	0.0244	pCi/g	2570		N/A	
		+/-0.0578		+/-0.0474				•	
Mercury-203	U	-0.0488	U	0.0279	pCi/g	734	•	N/A	,
	•	+/-0.0556		+/-0.0433					
Neodymium-147	. U	0.0155	U	-0.339	pCi/g	219		N/A	
		+/-1.09		+/-0.989					
Neptunium-239	U	-0.162	U	-0.0258	pCi/g	145		N/A	
		+/-0.190		+/-0.139					
Niobium-94	U	-0.00447	U	-0.00647	pCi/g	37		N/A	
N. 1. 06	1.7	+/-0.0574		+/-0.0362	0:4	2070		31/4	
Niobium-95	U	-0.0684 +/-0.0899	U	0.0779	pCi/g	3070		N/A	
Potassium-40		9.02		+/-0.0589	nCi/a	23 *		(0% - 20%)	
Fotassium-40		+/-1.50		7.19 +/-1.39	pCi/g	23		(070 - 2070)	
Promethium-144	, U	0.0318	U	0.0114	pCi/g	95	٠,	. N/A	
1 foliganum-144	O	+/-0.0604	U	+/-0.0382	peng	,,,		. 1077	
Promethium-146	U	-0.0195	U	-0.00427	pCi/g	128		N/A	
,		+/-0.0645	Ū	+/-0.0518	1028				
Radium-226		0.345		0.427	pCi/g	21	((0% - 100%)	â
		+/-0.232		+/-0.124	, ,		•	,	
Radium-228	UI	0.00	UI	0.00	pCi/g	18		N/A	·
4		+/-0.357		+/-0.279					
Ruthenium-106	U	-0.191	U	-0.00615	pCi/g	188		N/A	
	•	+/-0.479		+/-0.334			-		
Silver-110m	U	0.0353	U	-0.00305	pCi/g	238		N/A	
		+/-0.0627		+/-0.0435			4		
Sodium-22	. U	-0.00755	U		pCi/g	119		N/A	
		+/-0.066		+/-0.0429	~			20/ 1004/	
Thallium-208		0.122		0.169	pCi/g	. 32	((0% - 100%)	-

QC Summary

Workorder: 213274							Page 3 of 8	3	
Parmname	NOM	Sample	Qual	QC	→ Units	RPD%	REC%	Range Anlst	Date Time
Rad Gamma Spec									
Batch 781879	•								
									. •
		+/-0.0854		+/-0.0705					
Thorium-230		0.345		0.427	pCi/g	21		(0% - 100%) MJH1	08/08/08 08:21
		+/-0.232		+/-0.124					
Thorium-234	U	0.602	U	-0.133	pCi/g	314		N/A	
		+/-1.17		+/-1.31					
Tin-113	U	-0.0209	U	-0.0176	pCi/g	17		N/A	
Uranium-235	11	+/-0.0647		+/-0.0517	0:1	212		27/4	
Oranium-233	U	0.261 +/-0.246	U	-0.0574 +/-0.166	pCi/g	313		N/A	
Uranium-238	U	0.602	U	-0.133	pCi/g	314		N/A	
5.a	O	+/-1.17	U	+/-1.31	. pc#g	314		: 1/7	
Yttrium-88	U	-0.0426	U	-0.0467	pCi/g	9		N/A	
		+/-0.0588	_	+/-0.0487	70.8	-			
Zinc-65	U	-0.0374	·U	-0.0978	pCi/g	89		N/A	
		+/-0.137		+/-0.0935	,			•	
Zirconium-95	Ü	-0.0359	U	0.0615	pCi/g	76 0		· N/A	
001201620220		+/-0.123		+/-0.0807					
QC1201639220 LCS Actinium-228	•		U	0.270	-Cila				08/07/08 14:06
Account 220			٠.	0.378 +/-0.940	pCi/g				08/07/08 14.00
Americium-241	42.9			45.2	pCi/g		105	(75%-125%)	
<u> </u>	12.5			+/-4.13	perg		105	(7370-12370)	•
Antimony-124			U	0.00215	pCi/g				•
				+/-0.315	. 1 3				
Antimony-125			U	0.153	pCi/g				
			*	+/-0.459					
Barium-133			U	0.0074	pCi/g				
				+/-0.177					
Barium-140			U	0.533	pCi/g				
Damilliana 7				+/-1.28					
Beryllium-7			Ú	0.210	pCi/g				
Bismuth-212			1.1	+/-1.80					
D[3111dth-212			, U	0.486 +/-1.48	pCi/g				
Bismuth-214			U	0.140	nCi/a				
210				+/-0.316	pCi/g				
Cerium-139				0.297	pCi/g				
				+/-0.108	Peng				
Cerium-141			U	0.142	pCi/g				
				+/-0.144	. 3				
Cerium-144			U	-0.341	pCi/g				
				+/-0.599					
Cesium-134			U	-0.111	pCi/g				

+/-0.234

QC Summary

Workorder:

213274

WOIRDIUEF. 2132/4							Page 4 of 8				
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time		
Rad Gamma Spec Batch 781879											
Cesium-136		U	0.212 +/-0.753	pCi/g							
Cesium-137	16.9		19.2 +/-1.78	pCi/g		114	(75%-125%)	млні	08/07/08 14:06		
Chromium-51		U	-0.341 +/-1.43	pCi/g							
Cobalt-56		U	-0.0625 +/-0.253	pCi/g							
Cobalt-57	v .		1.39	pCi/g							
Cobalt-58		U	+/-0.225 -0.0718 +/ 0.232	pCi/g							
Cobalt-60	20.8	·	+/-0.232 22.2 +/-1.79	pCi/g		107	(75%-125%)				
Europium-152		U	0.0691 +/-0.387	pCi/g							
Europium-154		· U	0.448	pCi/g							
Europium-155		U	0.00863 +/-0.226	pCi/g					•		
Iridium-192	·	υ	0.0863	pCi/g							
Iron-59		U	0.152 +/-0.695	pCi/g	• .						
Lead-210	1		6.18	pCi/g							
Lead-212		U .	0.0239 +/-0.176	pCi/g	٠				•		
Lead-214		υ	-0.0216 +/-0.281	pCi/g							
Manganese-54		U	0.00684 +/-0.219	pCi/g	-				.e		
Mercury-203		Ů	0.00148 +/-0.137	pCi/g		~			,		
Neodymium-147		U .	-0.0613 +/-2.82	pCi/g							
Neptunium-239		U	0.225 +/-0.472	pCi/g							
Niobium-94		U	0.0381	pCi/g			•				
Niobium-95		U	+/-0.159 -0.13	pCi/g							
Potassium-40		υ	+/-0.244	pCi/g			,				
Promethium-144	·	Ŭ	+/-1.14 -0.0518	pCi/g							

QC Summary

Workorder:

213274

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
	NOW	Sample Qual	<u>Qc</u>	Units	KrD%	REC%	Range	Anist	Date 11me
Rad Gamma Spec Batch 781879						·			
			+/-0.161						
Promethium-146		. U	-0.0484 +/-0.239	pCi/g				МЈН1	08/07/08 14:06
Radium-226		U	0.140 +/-0.316	pCi/g					
Radium-228		U	0.378	pCi/g					
Ruthenium-106		Ū	+/-0.940 0.802	pCi/g					
Silver-110m			+/-1.51 0.862	pCi/g					
		.,	+/-0.236			•			
Sodium-22		U	0.149 +/-0.131	pCi/g	,				
Thallium-208		U	-0.148 +/-0.172	pCi/g					
Thorium-230		υ	0.140 +/-0.316	pCi/g					
Thorium-234		U	-2.97	pCi/g					
Tin-113		U	+/-1.71 0.211	pCi/g					
Uranium-235		Ū	+/-0.208 -0.13	pCi/g		•			
Uranium-238		U	+/-0.488 -2.97	pCi/g					
			+/-1.71						
Yttrium-88		U	0.240 +/-0.186	pCi/g					
Zinc-65		U _.	0.737 +/-0.606	pCi/g					
Zirconium-95		U	-0.295 +/-0.379	pCi/g					
QC1201639218 MB			17-0.517						
Actinium-228		U	0.028 +/-0.135	pCi/g					08/07/08 14:06
Americium-241			0.1.16	pCi/g					
antimony-124		U	+/-0.234 -0.00941	pCi/g					
antimony-125		U	+/-0.097 -0.0688	pCi/g					
arium-133		U	+/-0.0883 -0.0345	pCi/g					
			+/-0.0453						
arium-140		U	0.0886 +/-0.265	pCi/g					

	·	QC Si	ımmary			·		
Workorder: 213274	İ					Page 6	of 8	
Parmname	. NOM	Sample Qual	QC	Units RPD	% REC%	Range	Anist	Date Time
Rad Gamma Spec Batch 781879								
Beryllium-7		U	-0.27 +/-0.292	pCi/g				
Bismuth-212		U	0.107 +/-0.278	pCi/g			МЈН1	08/07/08 14:06
Bismuth-214		U	-0.0161 +/-0.0825	pCi/g			٠.	
Cerium-139		Ŭ.	-0.0168 +/-0.0232	pCi/g				
Cerium-141	•	U	0.0436 +/-0.0537	pCi/g	•	•		
Cerium-144	•	Ŭ	-0.00561 +/-0.168	pCi/g		•		
Cesium-134		U	-0.0153 +/-0.038	pCi/g				
Cesium-136		U	0.0212 +/-0.0911	pCi/g				
Cesium-137		υ	0.0084 +/-0.0305	pCi/g				
Chromium-51		υ	-0.231 . +/-0.344	pCi/g				(
Cobalt-56		υ	0.00644 +/-0.0409	pCi/g				
Cobalt-57		υ	0.00127 +/-0.0219	pCi/g				
Cobalt-58		U	0.00847 +/-0.0368	pCi/g				
Cobalt-60		· U	0.0255 +/-0.0401	pCi/g				
Europium-152	·	U	-0.0437 +/-0.0955	pCi/g				
Europium-154		U	-0.0659 +/-0.105	pCi/g				
Europium-155		U	0.0576 +/-0.0913	pCi/g				
Iridium-192		υ	-0.0131 +/-0.0324	pCi/g				
Iron-59		U .	-0.0286 +/-0.0796	pCi/g				
Lead-210		U	-0.836 +/-11.3	pCi/g		•		•
Lead-212		υ	-0.0136 +/-0.0801	pCi/g				
Lead-214		U	0.0084	pCi/g	•			•
Manganese-54		· U	0.00592	pCi/g				

	QC Summary									
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Parmname	NOM	Sample (Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec Batch 781879	•									
		*		. / 0 0222						
Mercury-203			U	+/-0.0333 -0.0151 +/-0.036	pCi/g				МЈН1	08/07/08 14:06
Neodymium-147			U	0.156 +/-0.612	pCi/g					
Neptunium-239			U	-0.145 +/-0.178	pCi/g					
Niobium-94			U	-0.0149 +/-0.0338	pCi/g		٠			,
Niobium-95			U	-0.022 +/-0.0419	pCi/g					
Potassium-40			U	0.0696	pCi/g			•	•	
Promethium-144			U.		pCi/g					,
Promethium-146			U	0.0167	pCi/g					. ' ' '
Radium-226			U	-0.0161 +/-0.0825	pCi/g					,
Radium-228			U	0.028	pCi/g					
Ruthenium-106			U	-0.0251 +/-0.299	pCi/g					
Silver-110m			U	0.0038	pCi/g					
Sodium-22			. U	-0.0188 +/-0.0367	pCi/g					
Thallium-208			U	-0.0202 +/-0.054	pCi/g					
Thorium-230			U	-0.0161 +/-0.0825	pCi/g					
Thorium-234			U	2.14 +/-1.93	pCi/g					
Tin-113			U	-0.00582 +/-0.0397	pCi/g					
Uranium-235			U	-0.0125 +/-0.192	pCi/g					•
Uranium-238			U	2.14 +/-1.93	pCi/g					
Yttrium-88			U	0.0123 +/-0.0423	pCi/g					•
Zinc-65			U	-0.048	pCi/g					

+/-0.0729

-0.0484

pCi/g

U

Zirconium-95

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QC Summary

Workorder:

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Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time
Rad Gamma Spec
Batch 781879

+/-0.0642

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

- ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
- * Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

