John Hickman - Rancho Seco

From: "Robert E. Jones" <RJones2@smud.org>
To: <jbh@nrc.gov>
Date: 04/17/2007 12:52 PM
Subject: Rancho Seco

Another follow-up e-mail

<<GEL Certification for UT.pdf>>

Bob Jones

Mail Envelope Properties (4624FB37.85E : 12 : 39006)

Subject: Rancho Seco
Creation Date 04/17/2007 12:50:50 PM
From: "Robert E. Jones" <RJones2@smud.org>

Created By: RJones2@smud.org

Recipients
nrc.gov
OWGWPO04.HQGWDO01
JBH (John Hickman)

Post Office	**Route**
OWGWPO04.HQGWDO01	nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	74	04/17/2007 12:50:50 PM
TEXT.htm	583	
GEL Certification for UT.pdf	4830593	
Mime.822	6613427	

Options

Expiration Date:	None
Priority:	Standard
ReplyRequested:	No
Return Notification:	None
Concealed Subject:	No
Security:	Standard

Junk Mail Handling Evaluation Results
Message is eligible for Junk Mail handling
This message was not classified as Junk Mail

Junk Mail settings when this message was delivered
Junk Mail handling disabled by User
Junk Mail handling disabled by Administrator
Junk List is not enabled
Junk Mail using personal address books is not enabled
Block List is not enabled

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Dear Mr. Synder:

Please find enclosed a copy of General Engineering laboratories, LLC certification for laboratory analytical work as provided by the State of Utah Department of Health. Should you need any additional information it will be my pleasure to provide you with any additional information you may need.

Sincerely,

Robert Wills

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

State of Utah

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

Utah Department of Health
Scott D. Williams, M.D., M.P.H.
Executive Director

Epidemiology And Laboratory Services
Charles D. Brokopp, Dr. P.H.
Division Director

Bureau of Laboratory Improvement
David Mendenhall
Bureau Director

8/12/2004

General Engineering Laboratory
Carey J. Bocklet Director
2040 Savage Road
Charleston SC 29417

ID # GEL
Account # 8037697376

Director,

In recognition of your NELAP accreditation and in compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring under the Clean Water Act and authorized to perform the following methods, for the analytes and matrix listed:

Non-Potable Water

Inorganics and Metals

110.2	Color (Colorimetric-Platinum-Cobalt)
120.1	Conductance (Specific Conductance, umhos at 25-C)
130.2	Hardness, Total (mg/L as CaCO3) (Titrimetric, EDTA)
150.1	pH (Electometric)
160.1	Residue, Filterable (Gravimetric, Dried at 180-C)
160.2	Residue, Non-Filterable (Gravimetric, Dried at 103-105-C)
160.3	Residue, Total (Gravimetric, Dried at 103-105-C)
160.4	Residue, Volatile (Gravimetric, Ignition at 550-C)
160.5	Settleable Matter (Volumetric, Imhoff Cone)
1631 B	Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluoresence Spectrometry
1664	Oil & Grease and Total Petroleum Hydrocarbons
1664 A	Oil & Grease and Total Petroleum Hydrocarbons
180.1	Turbidity
200.7	Metals and Trace Elements in Water
200.7	Aluminum
200.7	Antimony
200.7	Arsenic
200.7	Barium
200.7	Beryllium
200.7	Boron
200.7	Cadmium
200.7	Calcium
200.7	Chromium
200.7	Cobalt
200.7	Copper
200.7	Iron

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Inorganics and Metals

200.7	Lead
200.7	Magnesium
200.7	Manganese
200.7	Molybdenum
200.7	Nickel
200.7	Potassium
200.7	Selenium
200.7	Silica
200.7	Silver
200.7	Sodium
200.7	Thallium
200.7	Tin
200.7	Vanadium
200.7	Zinc
200.7	Hardness
200.8	Metals And Trace Elements In Water and Wastes
200.8	Aluminum
200.8	Antimony
200.8	Arsenic
200.8	Barium
200.8	Beryllium
200.8	Cadmium
200.8	Chromium
200.8	Cobalt
200.8	Copper
200.8	Lead
200.8	Manganese
200.8	Molybdenum
200.8	Nickel
200.8	Selenium
200.8	Silver
200.8	Thallium
200.8	Vanadium
200.8	Zinc
2320 B	Alkalinity (Titration)
2340 B	Hardness (Calculation)
245.1	Mercury
2540 E	Fixed and Volatile Solids Ignited at 500-C
2540 G	Total, Fixed, and Volatile Solids in Solid and Semisolid Samples
300.0	Inorganic Anions In Water By Ion Chromatography
300.0	Bromide
300.0	Chloride
300.0	Fluoride
300.0	Nitrate
300.0	Nitrite
300.0	ortho-Phosphate
300.0	Sulfate
305.1	Acidity
310.1	Alkalinity

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Inorganics and Metals	
330.5	Chlorine, Total Residual
335.1	Cyanides, Amenable To Chlorination
335.3	Cyanide, Total
335.4	Cyanide, Total
340.2	Fluoride
350.1	Nitrogen, Ammonia
3500 (Cr) D	Chromium (Colorimetric)
351.2	Nitrogen, Total Kjeldahl
365.4	Phosphorous, Total
376.2	Sulfide
410.4	Chemical Oxygen Demand
413.1	Oil And Grease
415.1	Organic Carbon, Total
420.2	Phenolics
425.1	Methylene Blue Active Substances (MBAS)
Organics	
504.1	1,2-Dibromoethane (EDB) And 1,2-Dibromo-3-chloropropane (DBCP)
504.1	1,2-Dibromo-3-chloropropane (DBCP)
504.1	1,2-Dibromoethane (EDB)
608	Organochlorine Pesticides and Polychlorinated Biphenyls
608	Aldrin
608	alpha-BHC
608	beta-BHC
608	delta-BHC
608	gamma-BHC (Lindane)
608	Chlordane (Technical)
608	4,4'-DDD
608	4,4'-DDE
608	4,4'-DDT
608	Dieldrin
608	Endosulfan I
608	Endosulfan II
608	Endosulfan Sulfate
608	Endrin
608	Endrin Aldehyde
608	Heptachlor
608	Heptachlor Epoxide
608	Toxaphene
608	Aroclor 1016
608	Aroclor 1221
608	Aroclor 1232
608	Aroclor 1242
608	Aroclor 1248
608	Aroclor 1254
608	Aroclor 1260
624	Purgeables
624	Acrolein
624	Acrylonitrile
624	Benzene

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Organics

624	Bromodichloromethane
624	Bromoform
624	Bromomethane
624	Carbon Tetrachloride
624	Chlorobenzene
624	Chloroethane
624	2-Chloroethylvinyl Ether
624	Chloroform
624	Chloromethane
624	Dibromochloromethane
624	1,2-Dibromo-3-chloropropane (DBCP)
624	1,2-Dibromoethane (EDB)
624	1,2-Dichlorobenzene
624	1,3-Dichlorobenzene
624	1,4-Dichlorobenzene
624	1,1-Dichloroethane
624	1,2-Dichloroethane
624	1,1-Dichloroethene
624	trans-1,2-Dichloroethene
624	1,2-Dichloropropane
624	cis-1,3-Dichloropropene
624	trans-1,3-Dichloropropene
624	Ethylbenzene
624	Methylene Chloride
624	1,1,2,2-Tetrachloroethane
624	Tetrachloroethylene
624	Toluene
624	1,1,1-Trichloroethane
624	1,1,2-Trichloroethane
624	Trichloroethene
624	Trichlorofluoromethane
624	Vinyl Chloride
625	Base/Neutrals and Acids
625	Acenaphthene
625	Acenaphthylene
625	Anthracene
625	Benzidine
625	Benzo(a)anthracene
625	Benzo(b)fluoranthene
625	Benzo(k)fluoranthene
625	Benzo(g,h,i)perylene
625	Benzo(a)pyrene
625	Benzyl Butyl Phthalate
625	bis(2-Chloroethyl)ether
625	bis(2-Chloroethoxy)methane
625	bis(2-Ethylhexyl)phthalate
625	bis(2-Chloroisopropyl)ether
625	4-Bromophenyl Phenyl Ether
625	2-Chloronaphthalene

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Organics

625	4-Chlorophenyl Phenyl Ether
625	Chrysene
625	Dibenz(a,h)anthracene
625	Di-n-butylphthalate
625	1,2-Dichlorobenzene
625	1,3-Dichlorobenzene
625	1,4-Dichlorobenzene
625	3,3'-Dichlorobenzidine
625	Diethyl phthalate
625	Dimethyl phthalate
625	2,4-Dinitrotoluene
625	2,6-Dinitrotoluene
625	Di-n-octylphthalate
625	Fluoranthene
625	Fluorene
625	Hexachlorobenzene
625	Hexachlorobutadiene
625	Hexachlorocyclopentadiene
625	Hexachloroethane
625	Indeno(1,2,3-cd)pyrene
625	Isophorone
625	Naphthalene
625	Nitrobenzene
625	N-Nitrosodimethylamine
625	N-Nitrosodi-n-propylamine
625	N-Nitrosodiphenylamine
625	Phenanthrene
625	Pyrene
625	1,2,4-Trichlorobenzene
625	4-Chloro-3-methylphenol
625	2-Chlorophenol
625	2,4-Dichlorophenol
625	2,4-Dimethylphenol
625	2,4-Dinitrophenol
625	2-Methyl- 4,6-dinitrophenol
625	2-Nitrophenol
625	4-Nitrophenol
625	Pentachlorophenol
625	Phenol
625	2,4,6-Trichlorophenol

Radiological

900.0	Gross Alpha and Gross Beta Radioactivity
900.0	Gross Alpha
900.0	Gross Beta
903.0	Radium
903.1	radium-226

The effective date of this certificate letter is: 7/1/2004.

The analytes by method which a laboratory is authorized to perform at any given time will be those indicated in the most recent certificate letter. The most recent certification letter supersedes all previous certification or authorization letters. It is the certified laboratory's responsibility to review this letter for discrepancies. The certified laboratory must document any discrepancies in this letter and send notice to this bureau within 15 days of receipt. This certificate letter will be recalled in the event your laboratory's certification is revoked.

Respectfully,

Barbara R. Jepson

Barbara Jepson
Acting Deputy Director

State of Utah

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

Utah Department of Health
Scott D. Williams, M.D., M.P.H.
Executive Director

Epidemiology And Laboratory Services
Charles D. Brokopp, Dr. P.H.
Division Director

Bureau of Laboratory Improvement
David Mendenhall
Bureau Director

8/12/2004

General Engineering Laboratory
Carey J. Bocklet Director
2040 Savage Road
Charleston SC 29417

ID # GEL
Account # 8037697376

Director,

On the basis of your most recent assessment, Proficiency Testing results and continuing compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring under the Resource Conservation and Recovery Act and authorized to perform the following methods, for the analytes and matrix listed:

Characteristics

	Solid	Non-Potable Water	
1010	☐	☑	Ignitability
1020	☐	☑	Ignitability
1020A	☐	☑	Ignitability
1110	☑	☐	Corrosivity Toward Steel
1311	☑	☐	Toxicity Characteristic Leaching Procedure Metals
1311	☑	☐	Toxicity Characteristic Leaching Procedure Semi-Volatiles
1311	☑	☐	Toxicity Characteristic Leaching Procedure Volatiles
1312	☑	☐	Synthetic Precipitation Leaching Procedure (TCLP Approval)
1320	☑	☐	Multiple Extraction Procedure
Sec 7.3.3	☑	☑	Reactive Cyanide
Sec 7.3.4	☐	☑	Reactive Sulfide

Inorganics

	Solid	Non-Potable Water	
9010 B	☐	☑	Cyanide Distillation Procedure
9012 A	☐	☑	Total and Amenable Cyanide
9014	☐	☑	Cyanide
9020 B	☐	☑	Total Organic Halides (TOX)
9023	☑	☐	Extractable Organic Halides (EOX)
9030 B	☐	☑	Sulfide Distillation Procedure
9034	☑	☐	Acid-Soluble and Acid-Insoluble Sulfides
9040 B	☐	☑	pH
9045 C	☑	☐	Soil and Waste pH
9050	☐	☑	Specific Conductance
9056	☑	☑	Bromide

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Inorganics

	Solid	Non-Potable Water	
9056	☑	☑	Chloride
9056	☑	☑	Fluoride
9056	☑	☑	Nitrate
9056	☐	☑	Nitrite
9056	☐	☑	Ortho Phosphate
9056	☑	☑	Sulfates
9060	☐	☑	Total Organic Carbon
9066	☐	☑	Phenolics
9070	☐	☑	Total Recoverable Oil and Grease
9071	☑	☐	Oil and Grease Extraction Method for Sludge and Sediment Samples
9071 A	☑	☐	Oil and Grease Extraction Method for Sludge and Sediment Samples
9081	☑	☐	Cation-Exchange Capacity of Soil (Sodium Acetate)
9095	☑	☐	Paint Filter Liquids Test

Metals

	Solid	Non-Potable Water	
6010 B	☑	☑	Aluminum
6010 B	☑	☑	Antimony
6010 B	☑	☑	Arsenic
6010 B	☑	☑	Barium
6010 B	☑	☑	Beryllium
6010 B	☑	☑	Boron
6010 B	☑	☑	Cadmium
6010 B	☑	☑	Calcium
6010 B	☑	☑	Chromium
6010 B	☑	☑	Cobalt
6010 B	☑	☑	Copper
6010 B	☑	☑	Iron
6010 B	☑	☑	Lead
6010 B	☑	☑	Magnesium
6010 B	☑	☑	Manganese
6010 B	☑	☑	Molybdenum
6010 B	☑	☑	Nickel
6010 B	☑	☑	Potassium
6010 B	☑	☑	Selenium
6010 B	☐	☑	Silica
6010 B	☐	☑	Silicon
6010 B	☑	☑	Silver
6010 B	☑	☑	Sodium
6010 B	☑	☑	Strontium
6010 B	☑	☑	Thallium
6010 B	☑	☑	Tin
6010 B	☑	☑	Vanadium
6010 B	☑	☑	Zinc
6020	☑	☑	Aluminum
6020	☑	☑	Antimony

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Metals

	Solid	Non-Potable Water	
6020	☑	☑	Arsenic
6020	☑	☑	Barium
6020	☑	☑	Beryllium
6020	☑	☑	Cadmium
6020	☑	☑	Chromium
6020	☑	☑	Cobalt
6020	☑	☑	Copper
6020	☑	☑	Lead
6020	☑	☑	Manganese
6020	☑	☑	Nickel
6020	☐	☑	Selenium
6020	☑	☑	Silver
6020	☑	☑	Thallium
6020	☐	☑	Vanadium
6020	☑	☑	Zinc
7196 A	☑	☑	Chromium, Hexavalent
7470 A	☑	☑	Mercury
7471 A	☑	☐	Mercury

Organic Instrumentation

	Solid	Non-Potable Water	
8011	☐	☑	1,2-Dibromo-3-chloropropane (DBCP)
8011	☐	☑	1,2-Dibromoethane (EDB, Ethylene dibromide)
8011	☐	☑	EDB and DBCP by Microextraction and Gas Chromatography
8015 B	☑	☑	Diesel Range Organics (DROs)
8015 B	☑	☑	Gasoline Range Organics (GROs)
8015 B	☐	☑	Isobutyl Alcohol (2-Methyl-1-propanol)
8015 B	☐	☑	Isopropyl Alcohol (2-Propanol)
8015 B	☑	☑	Methanol
8015 B	☐	☑	Methyl Ethyl Ketone (MEK, 2-Butanone)
8015 B	☑	☑	Nonhalogenated Organics Using GC/FID
8081 A	☑	☑	4,4'-DDD
8081 A	☑	☑	4,4'-DDE
8081 A	☑	☑	4,4'-DDT
8081 A	☑	☑	Aldrin
8081 A	☑	☑	alpha-BHC(alpha-hexachlorocyclohexane)
8081 A	☑	☑	beta-BHC(beta-hexachlorocyclohexane)
8081 A	☑	☑	Chlordane (technical)
8081 A	☑	☑	delta-BHC(delta-hexachlorocyclohexane)
8081 A	☑	☑	Dieldrin
8081 A	☑	☑	Endosulfan I
8081 A	☑	☑	Endosulfan II
8081 A	☑	☑	Endosulfan sulfate
8081 A	☑	☑	Endrin
8081 A	☑	☑	Endrin Aldehyde
8081 A	☑	☑	Endrin Ketone

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Organic Instrumentation

	Solid	Non-Potable Water	
8081 A	☑	☑	gamma-BHC (Lindane, gamma-hexachlorocyclohexane)
8081 A	☑	☑	Heptachlor
8081 A	☑	☑	Heptachlor Epoxide
8081 A	☑	☑	Methoxychlor
8081 A	☑	☑	Organochlorine Pesticides
8081 A	☑	☑	Toxaphene [Chlorinated camphene]
8082	☐	☑	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
8082	☐	☑	2,2',3,3',4,4',5,5'-Octachlorobiphenyl
8082	☐	☑	2,2',3,3',4,4',5-Heptachlorobiphenyl
8082	☐	☑	2,2',3,3',4,4'-Hexachlorobiphenyl
8082	☐	☑	2,2',3,4',5,5',6-Heptachlorobiphenyl
8082	☐	☑	2,2',3,4,4',5',6-Heptachlorobiphenyl
8082	☐	☑	2,2',3,4,4',5'-Hexachlorobiphenyl
8082	☐	☑	2,2',3,4,4',5,5'-Heptachlorobiphenyl
8082	☐	☑	2,2',3,4,5'-Pentachlorobiphenyl
8082	☐	☑	2,2',3,4,5,5'-Hexachlorobiphenyl
8082	☐	☑	2,2',3,5'-Tetrachlorobiphenyl
8082	☐	☑	2,2',3,5,5',6-Hexachlorobiphenyl
8082	☐	☑	2,2',4,4',5,5'-Hexachlorobiphenyl
8082	☐	☑	2,2',4,5'-Tetrachlorobiphenyl
8082	☐	☑	2,2',4,5,5'-Pentachlorobiphenyl
8082	☐	☑	2,2',5,5'-Tetrachlorobiphenyl
8082	☐	☑	2,2',5-Trichlorobiphenyl
8082	☐	☑	2,3',4,4'-Tetrachlorobiphenyl
8082	☐	☑	2,3',4,4'5-Pentachlorobiphenyl
8082	☐	☑	2,3,3',4',6-Pentachlorobiphenyl
8082	☐	☑	2,3,5'-Trichlorobiphenyl
8082	☐	☑	2,3-Dichlorobiphenyl
8082	☐	☑	2,4',5-Trichlorobiphenyl
8082	☑	☑	Aroclor-1016 [PCB-1016]
8082	☑	☑	Aroclor-1221 PCB-1221]
8082	☑	☑	Aroclor-1232 [PCB-1232]
8082	☑	☑	Aroclor-1242 [PCB-1242]
8082	☑	☑	Aroclor-1248 [PCB-1248]
8082	☑	☑	Aroclor-1254 [PCB-1254]
8082	☑	☑	Aroclor-1260 [PCB-1260]
8082	☐	☑	Decachlorobiphenyl
8082	☑	☑	PCBs
8151 A	☑	☑	2,4,5-T
8151 A	☑	☑	2,4,5-TP (Silvex)
8151 A	☑	☑	2,4-D
8151 A	☑	☑	2,4-DB
8151 A	☑	☑	Chlorinated Herbicides
8151 A	☑	☑	Dalapon
8151 A	☑	☑	Dicamba
8151 A	☐	☑	Dichlorprop(Dichloroprop)

Organic Instrumentation

	Solid	Non-Potable Water	
8151 A	☑	☑	Dinoseb (DNBP, 2-sec-butyl-4,6-dinitrophenol)
8151 A	☐	☑	MCPA
8151 A	☑	☑	MCPP
8260 B	☑	☑	1,1,1,2-Tetrachloroethane
8260 B	☑	☑	1,1,1-Trichloroethane
8260 B	☑	☑	1,1,2,2-Tetrachloroethane
8260 B	☑	☑	1,1,2-Trichloroethane
8260 B	☑	☑	1,1-Dichloroethane
8260 B	☑	☑	1,1-Dichloroethylene (-ethene)
8260 B	☑	☑	1,2,3-Trichloropropane
8260 B	☑	☑	1,2-Dibromo-3-chloropropane (DBCP)
8260 B	☑	☑	1,2-Dibromoethane (EDB, Ethylene dibromide)
8260 B	☑	☑	1,2-Dichlorobenzene
8260 B	☑	☑	1,2-Dichloroethane
8260 B	☑	☑	1,2-Dichloropropane
8260 B	☑	☑	1,3-Dichlorobenzene
8260 B	☑	☑	1,4-Dichlorobenzene
8260 B	☑	☑	2-Chloroethyl Vinyl Ether
8260 B	☑	☑	2-Hexanone
8260 B	☑	☐	4-Methyl-2-pentanone (MIBK, Isopropylacetone, Hexone)
8260 B	☑	☑	Acetone
8260 B	☑	☑	Acetonitrile
8260 B	☑	☑	Acrolein (Propenal)
8260 B	☐	☑	Acrylonitrile
8260 B	☑	☑	Benzene
8260 B	☑	☑	Bromodichloromethane
8260 B	☑	☑	Bromoform
8260 B	☑	☑	Carbon Disulfide
8260 B	☑	☑	Carbon Tetrachloride
8260 B	☑	☑	Chlorobenzene
8260 B	☑	☑	Chlorodibromomethane [Dibromochloromethane]
8260 B	☑	☑	Chloroethane
8260 B	☑	☑	Chloroform
8260 B	☑	☑	cis-1,2-Dichloroethene (-ethylene)
8260 B	☑	☑	cis-1,3-dichloropropene
8260 B	☑	☑	Dibromomethane
8260 B	☑	☑	Dichlorodifluoromethane
8260 B	☑	☑	Ethylbenzene
8260 B	☑	☑	Methyl bromide [Bromomethane]
8260 B	☑	☑	Methyl chloride [Chloromethane]
8260 B	☑	☑	Methyl Ethyl Ketone (MEK, 2-Butanone)
8260 B	☑	☑	Methyl Ethyl Ketone (MEK, 2-Butanone)
8260 B	☑	☑	Methyl-t-Butyl Ether (MTBE)
8260 B	☑	☑	Methylene Chloride
8260 B	☑	☑	Styrene
8260 B	☑	☑	Tetrachloroethylene (Perchloroethylene -ethene)

Organic Instrumentation

	Solid	Non-Potable Water	
8260 B	☑	☑	Toluene
8260 B	☑	☑	trans-1,2-Dichloroethylene (-ethene)
8260 B	☑	☑	trans-1,3-Dichloropropylene (-propene)
8260 B	☑	☑	Trichloroethene (Trichloroethylene)
8260 B	☑	☑	Trichlorofluoromethane
8260 B	☑	☑	Vinyl Acetate
8260 B	☑	☑	Vinyl Chloride
8260 B	☑	☑	Volatile Organic Compounds
8260 B	☑	☑	Xylenes, Total
8270 C	☑	☑	1,2,4-Trichlorobenzene
8270 C	☑	☑	1,2-Dichlorobenzene
8270 C	☐	☑	1,3,5-Trinitrobenzene (1,3,5-TNB)
8270 C	☑	☑	1,3-Dichlorobenzene
8270 C	☑	☑	1,4-Dichlorobenzene
8270 C	☑	☑	2,3,4,6-Tetrachlorophenol
8270 C	☑	☑	2,4,5-Trichlorophenol
8270 C	☑	☑	2,4,6-Trichlorophenol
8270 C	☑	☑	2,4-Dichlorophenol
8270 C	☑	☑	2,4-Dimethylphenol
8270 C	☑	☑	2,4-Dinitrophenol
8270 C	☑	☑	2,4-Dinitrotoluene (2,4-DNT)
8270 C	☑	☑	2,6-Dichlorophenol
8270 C	☑	☑	2,6-Dinitrotoluene (2,6-DNT)
8270 C	☑	☑	2-Chloronaphthalene
8270 C	☑	☑	2-Chlorophenol
8270 C	☑	☑	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)
8270 C	☑	☑	2-Methylnaphthalene
8270 C	☑	☑	2-Methylphenol (o-cresol, 2-Hydroxytoluene)
8270 C	☑	☑	2-Nitroaniline
8270 C	☑	☑	2-Nitrophenol
8270 C	☑	☑	3,3'-Dichlorobenzidine
8270 C	☑	☑	3-Methylphenol (m-cresol, 3-Hydroxytoluene)
8270 C	☑	☑	3-Nitroaniline
8270 C	☐	☑	4,4'-DDD
8270 C	☐	☑	4,4'-DDE
8270 C	☐	☑	4,4'-DDT
8270 C	☑	☑	4-Bromophenyl Phenyl Ether
8270 C	☑	☑	4-Chloro-3-methylphenol
8270 C	☑	☑	4-Chloroaniline
8270 C	☑	☑	4-Chlorophenyl Phenyl Ether
8270 C	☑	☑	4-Methylphenol (p-cresol, 4-Hydroxytoluene)
8270 C	☑	☑	4-Nitroaniline
8270 C	☑	☑	4-Nitrophenol
8270 C	☑	☑	Acenaphthene
8270 C	☑	☑	Acenaphthylene
8270 C	☐	☑	alpha-BHC(alpha-hexachlorocyclohexane)

Organic Instrumentation

	Solid	Non-Potable Water	
8270 C	☑	☑	Aniline
8270 C	☑	☑	Anthracene
8270 C	☑	☑	Benzo(a)anthracene
8270 C	☑	☑	Benzo(a)pyrene
8270 C	☑	☑	Benzo(b)fluoranthene
8270 C	☑	☑	Benzo(g,h,i)perylene
8270 C	☑	☑	Benzo(k)fluoranthene
8270 C	☑	☑	Benzoic Acid
8270 C	☑	☑	Benzyl alcohol
8270 C	☑	☑	beta-BHC(beta-hexachlorocyclohexane)
8270 C	☑	☑	bis(2-chloroethoxy)methane
8270 C	☑	☑	bis(2-Chloroethyl)ether
8270 C	☑	☑	bis(2-chloroisopropyl)ether
8270 C	☑	☑	bis(2-Ethylhexyl) phthalate (DEHP)
8270 C	☑	☑	Butyl Benzyl Phthalate
8270 C	☑	☑	Carbazole
8270 C	☑	☑	Chrysene
8270 C	☐	☑	delta-BHC(delta-hexachlorocyclohexane)
8270 C	☑	☑	Di-n-butyl phthalate
8270 C	☑	☑	Di-n-octyl Phthalate
8270 C	☑	☑	Dibenzo(a,h)anthracene
8270 C	☑	☑	Dibenzofuran
8270 C	☐	☑	Dieldrin
8270 C	☑	☑	Diethyl Phthalate
8270 C	☑	☑	Dimethyl Phthalate
8270 C	☐	☑	Endosulfan I
8270 C	☐	☑	Endosulfan II
8270 C	☐	☑	Endosulfan Sulfate
8270 C	☐	☑	Endrin
8270 C	☐	☑	Endrin Aldehyde
8270 C	☑	☑	Fluoranthene
8270 C	☑	☑	Fluorene
8270 C	☐	☑	gamma-BHC (Lindane, gamma-hexachlorocyclohexane)
8270 C	☐	☑	Heptachlor
8270 C	☐	☑	Heptachlor Epoxide
8270 C	☑	☑	Hexachlorobenzene
8270 C	☑	☑	Hexachlorobutadiene
8270 C	☑	☑	Hexachlorocyclopentadiene
8270 C	☑	☑	Hexachloroethane
8270 C	☑	☑	Indeno(1,2,3-cd)pyrene
8270 C	☑	☑	Isophorone
8270 C	☑	☑	n-Nitroso-di-n-Propylamine
8270 C	☑	☑	n-Nitrosodimethylamine
8270 C	☑	☑	n-Nitrosodiphenylamine
8270 C	☑	☑	Naphthalene
8270 C	☑	☑	Nitrobenzene

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Organic Instrumentation

	Solid	Non-Potable Water	
8270 C	☑	☐	Pentachlorobenzene
8270 C	☑	☑	Pentachlorophenol
8270 C	☑	☑	Phenanthrene
8270 C	☑	☑	Phenol
8270 C	☑	☑	Pyrene
8270 C	☑	☑	Semivolatile Organic Compounds
8280 A	☐	☑	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)
8280 A	☐	☑	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)
8280 A	☐	☑	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)
8280 A	☐	☑	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)
8280 A	☐	☑	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)
8280 A	☐	☑	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
8280 A	☐	☑	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)
8280 A	☐	☑	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
8280 A	☐	☑	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)
8280 A	☐	☑	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)
8280 A	☐	☑	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)
8280 A	☐	☑	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin (PeCDD)
8280 A	☐	☑	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)
8280 A	☐	☑	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)
8280 A	☐	☑	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)
8280 A	☐	☑	2,3,7,8-Tetrachlorodibenzo-p-dioxin
8280 A	☐	☑	2,3,7,8-Tetrachlorodibenzofuran (TCDF)
8280 A	☐	☑	PCDDs and PCDs
8280 A	☐	☑	Total Heptachlorodibenzo-p-dioxin (HpCDD)
8280 A	☐	☑	Total Heptachlorodibenzofuran (HpCDF)
8280 A	☐	☑	Total Hexachlorodibenzo-p-dioxin (HxCDD)
8280 A	☐	☑	Total Hexachlorodibenzofuran (HxCDF)
8280 A	☐	☑	Total Pentachlorodibenzo-p-dioxin (PeCDD)
8280 A	☐	☑	Total Pentachlorodibenzofuran (PeCDF)
8280 A	☐	☑	Total Tetrachlorodibenzo-p-dioxin (TCDD)
8280 A	☐	☑	Total Tetrachlorodibenzofuran (TCDF)
8310	☑	☑	Acenaphthene
8310	☑	☑	Acenaphthylene
8310	☑	☑	Anthracene
8310	☑	☑	Benzo(a)anthracene
8310	☑	☑	Benzo(a)pyrene
8310	☑	☑	Benzo(b)fluoranthene
8310	☑	☑	Benzo(g,h,i)perylene
8310	☑	☑	Benzo(k)fluoranthene
8310	☑	☑	Chrysene
8310	☑	☑	Dibenzo(a,h)anthracene
8310	☑	☑	Fluoranthene
8310	☑	☑	Fluorene
8310	☑	☑	Indeno(1,2,3-c,d)pyrene
8310	☑	☑	Naphthalene

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Organic Instrumentation

	Solid	Non-Potable Water	
8310	☐	☑	Pentachlorophenol
8310	☑	☑	Phenanthrene
8310	☑	☑	Polynuclear Aromatic Hydrocarbons
8310	☑	☑	Pyrene
8330	☑	☑	1,3,5-Trinitrobenzene (1,3,5-TNB)
8330	☑	☑	1,3-Dinitrobenzene (1,3-DNB)
8330	☑	☑	2,4,6-Trinitrotoluene (2,4,6-TNT)
8330	☑	☐	2,4-Dinitrotoluene (2,4-DNT)
8330	☑	☐	2,6-Dinitrotoluene (2,6-DNT)
8330	☑	☑	2-Amino-4,6-Dinitrotoluene (2-Am-DNT)
8330	☑	☑	2-Nitrotoluene (2-NT)
8330	☑	☑	3-Nitrotoluene (3-NT)
8330	☑	☑	4-Amino-2,6-Dinitrotoluene (4-Am-DNT)
8330	☑	☑	4-Nitrotoluene (4-NT)
8330	☑	☑	Hexahydro-1, 3, 5-tritro-1, 3, 5-triazine (RDX)
8330	☑	☑	Methyl-2,4,6-Trinitrophenylnitramine (TETRYL)
8330	☑	☑	Nirtoaromatics and Nitramines
8330	☑	☑	Nitrobenzene
8330	☑	☑	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)

Radiochemistry

	Solid	Non-Potable Water	
9310	☑	☐	Gross Alpha and Gross Beta
9320	☑	☐	Radium 228

The effective date of this certificate letter is: 7/1/2004.

The analytes by method which a laboratory is authorized to perform at any given time will be those indicated in the most recent certificate letter. The most recent certification letter supersedes all previous certification or authorization letters. It is the certified laboratory's responsibility to review this letter for discrepancies. The certified laboratory must document any discrepancies in this letter and send notice to this bureau within 15 days of receipt. This certificate letter will be recalled in the event your laboratory's certification is revoked.

Respectfully,

Barbara R. Jepson

Barbara Jepson
Acting Deputy Director

State of Utah

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

Utah Department of Health
Scott D. Williams, M.D., M.P.H.
Executive Director

Epidemiology And Laboratory Services
Charles D. Brokopp, Dr. P.H.
Division Director

Bureau of Laboratory Improvement
David Mendenhall
Bureau Director

8/12/2004

General Engineering Laboratory
Carey J. Bocklet Director
2040 Savage Road
Charleston SC 29417

ID # GEL
Account # 8037697376

Director,

On the basis of your most recent assessment, Proficiency Testing results and continuing compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring under the Safe Drinking Water Act and authorized to perform the following methods, for the analytes and matrix listed:

Drinking Water

Inorganics and Metals

110.2	Color
150.1	pH
160.1	Residue, Filterable
200.7	Metals and Trace Elements in Water
200.7	Aluminum
200.7	Arsenic
200.7	Barium
200.7	Beryllium
200.7	Cadmium
200.7	Calcium
200.7	Chromium
200.7	Iron
200.7	Manganese
200.7	Nickel
200.7	Silica
200.7	Silver
200.7	Sodium
200.7	Zinc
200.8	Metals And Trace Elements In Water and Wastes
200.8	Aluminum
200.8	Antimony
200.8	Arsenic
200.8	Barium
200.8	Beryllium
200.8	Cadmium
200.8	Chromium
200.8	Manganese

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Inorganics and Metals	
200.8	Nickel
200.8	Selenium
200.8	Silver
200.8	Thallium
200.8	Zinc
2320 B	Alkalinity - Titration Method
245.1	Mercury
300.0	Inorganic Anions In Water
300.0	Bromide
300.0	Chloride
300.0	Fluoride
300.0 A	Inorganic Anions In Water
314.0	Perchlorate
340.2	Fluoride
Nitrate	
300.0	Nitrate
Nitrite	
300.0	Nitrite
Organics	
504.1	EDB and DBCP In Water
504.1	1,2-Dibromoethane (EDB, Ethylene dibromide)
504.1	1,2-Dibromo-3-chloropropane (DBCP)
524.2	Purgeable Organic Compounds In Water
524.2	Benzene
524.2	Bromobenzene
524.2	Bromochloromethane
524.2	Bromodichloromethane [Dichlorobromomethane]
524.2	Bromoform
524.2	Bromomethane [Methyl bromide]
524.2	n-Butylbenzene
524.2	sec-Butylbenzene
524.2	tert-Butylbenzene
524.2	Carbon Tetrachloride
524.2	Chlorobenzene
524.2	Chloroethane
524.2	Chloroform
524.2	Chloromethane [Methyl chloride]
524.2	2-Chlorotoluene
524.2	4-Chlorotoluene
524.2	Chlorodibromomethane
524.2	Dibromomethane
524.2	1,3-Dichlorobenzene
524.2	1,2-Dichlorobenzene
524.2	1,4-Dichlorobenzene
524.2	Dichlorodifluoromethane
524.2	1,1-Dichloroethane
524.2	1,2-Dichloroethane
524.2	1,1-Dichloroethene
524.2	cis-1,2-Dichloroethene

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Loma Ward 801-584-8469.

Organics	
524.2	trans-1,2-Dichloroethene
524.2	1,2-Dichloropropane
524.2	1,3-Dichloropropane
524.2	2,2-Dichloropropane
524.2	1,1-Dichloropropene
524.2	cis-1,3-Dichloropropene
524.2	trans-1,3-Dichloropropene [-pylene]
524.2	Ethylbenzene
524.2	Hexachlorobutadiene
524.2	Isopropylbenzene
524.2	4-Isopropyltoluene
524.2	Styrene
524.2	1,1,1,2-Tetrachloroethane
524.2	1,1,2,2-Tetrachloroethane
524.2	Tetrachloroethene [-ethylene, Perchloroethylene]
524.2	Toluene
524.2	1,2,4-Trichlorobenzene
524.2	1,1,1-Trichloroethane
524.2	1,1,2-Trichloroethane
524.2	Trichloroethene [-ethylene]
524.2	Trichlorofluoromethane
524.2	1,2,3-Trichloropropane
524.2	1,2,4-Trimethylbenzene
524.2	1,3,5-Trimethylbenzene
524.2	Vinyl Chloride
524.2	Total Triholamethanes
524.2	Methyl Tert-Butyl Ether (MTBE)
524.2	Methylene Chloride [Dichloromethane, DCM]
524.2	trans-1,2-Dichloroethene
552.2	Haloacetic Acids And Dalapon In Drinking Water
Pb/Cu	
200.7	Copper
200.8	Copper
200.8	Lead
Radionuclides	
900.0	Gross Alpha & Beta Radioactivity in Drinking Water Evaporation Technique
900.0	Gross Alpha
900.0	Gross Beta
901.1	Gamma Emitting Radionuclidies in Drinking Water
902.0	Radioactive Iodine in Drinking Water Radiochemical Method
902.0	Gamma Emitting Radionuclidies in Drinking Water
903.0	Alpha-Emitting Radium Isotopes in Drinking Water
903.1	Radium 226 in Drinking Water Radon Emanation Technique
904.0	Radium 228 in Drinking Water Radiochemical Technique
905.0	Radioactive Strontium in Drinking Water Radiochemical Technique
905.0	Strontium 89
905.0	Strontium 90
906.0	Tritium in Drinking Water Liquid Scintillation Technique
D-5174-91	Uranium Laser Phosphorimetry Technique

The expiration for the laboratory's certification is 6/30/2005. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call Lorna Ward 801-584-8469.

Sulfates

300.0	Sulfate

The effective date of this certificate letter is: 7/1/2004.

The analytes by method which a laboratory is authorized to perform at any given time will be those indicated in the most recent certificate letter. The most recent certification letter supersedes all previous certification or authorization letters. It is the certified laboratory's responsibility to review this letter for discrepancies. The certified laboratory must document any discrepancies in this letter and send notice to this bureau within 15 days of receipt. This certificate letter will be recalled in the event your laboratory's certification is revoked.

Respectfully,

Barbara R. Jepson

Barbara Jepson
Acting Deputy Director

General Engineering Laboratories, LLC
P.O. Box 30712
Charleston, SC 29417
(843) 556-8171, phone
(843) 766-1178, fax
www.gel.net

QUOTE REFERENCE NO. GELP03-0255	
PRICE QUOTATION	
Prepared For:	Einar T. Ronningen SMUD 14440 Twin Cities Road Herald, CA 95638-9799 916-732-4817
Date:	14-Apr-03
Revision No.	0

General Engineering Laboratories, LLC is pleased to submit this quotation for the referenced project. Prices are valid for 60 days and may be extended upon request. As part of our commitment to the success of your project, Robert Wills has been designated as your GEL Project Manager to assist in the implementation of your project requirements. Thank you for the opportunity to submit this quote for analytical requirements and we look forward to working with you on this project.

Project Specifications

Quotation Date:	April 14, 2003	**Start Date:**	to be determined
Quotation Reference:	Bob Wills	**Shipment Costs:**	GEL will ship bottles and coolers non-priority to site. Priority shipments to the site and shipments to GEL are the responsibility of SMUD.
TAT	28 calendar days	**Data Deliverable:**	Level II COA and QC summary, no EDD
Detection Limits	GEL's standard MDAs	**Waste Disposal:**	Samples will be retained for no longer than 60 days following delivery of final report.

Project Quote

Analyte	Matrix	Quantity	Unit Cost
Bioassay (urine)			
Carbon-14	urine	IDIQ	$ 140.00
Tritium	urine	IDIQ	$ 85.00
Uranium- 234, 235, 238	urine	IDIQ	$ 175.00
Thorium- 228, 230, 232	urine	IDIQ	$ 175.00
Plutonium -238, 239/240	urine	IDIQ	$ 175.00
Americium-241	urine	IDIQ	$ 175.00

Bioassay (fecal)			
Carbon-14	fecal	IDIQ	$ 140.00
Tritium	fecal	IDIQ	$ 85.00
Uranium- 234, 235, 238	fecal	IDIQ	$ 175.00
Thorium- 228, 230, 232	fecal	IDIQ	$ 175.00
Plutonium -238, 239/240	fecal	IDIQ	$ 175.00
Americium-241	fecal	IDIQ	$ 175.00

Point of Contact
Robert Wills
Robert.Wills@mail.gel.com
(843) 556-8171 phone
(843) 766-1178 fax

Shipping Address
General Engineering Laboratories, LLC
2040 Savage Road
Charleston, SC 29407

All work requires submission of a valid PO or signed acknowledgement of this quotation and is subject to GEL's Standard Terms & Conditions. Client specified QC will be invoiced at the applicable unit rates. Standard MDAs and MDLs assume sufficient sample volume is received for analysis. Payment terms are net 30 days. Upon acceptance, unit prices are valid for a period of one year.

ACCEPTED BY: _____ DATE: _____ PO # _____

General Engineering Laboratories, LLC
P.O. Box 30712
Charleston, SC 29417
(843) 556-8171, phone
(843) 766-1178, fax
www.gel.net

QUOTE REFERENCE NO. GELP03-0258	
PRICE QUOTATION	
Prepared For:	Einar T. Konningen SMUD 14440 Twin Cities Road Herald, CA 95638-9799 916-732-4817
Date:	14-Apr-03
Revision No.	0

General Engineering Laboratories, LLC is pleased to submit this quotation for the referenced project. Prices are valid for 60 days and may be extended upon request. As part of our commitment to the success of your project, Robert Wills has been designated as your GEL Project Manager to assist in the implementation of your project requirements. Thank you for the opportunity to submit this quote for analytical requirements and we look forward to working with you on this project.

Project Specifications

Quotation Date:	April 14, 2003	Start Date:	to be determined
Quotation Reference:	Bob Wills	Shipment Costs:	GEL will ship bottles and coolers non-priority to site. Priority shipments to the site and shipments to GEL are the responsibility of SMUD.
TAT	28 calendar days	Data Deliverable:	Level II COA and QC summary; no EDD
Detection Limits	GEL's standard MDAs	Waste Disposal:	Samples will be retained for no longer than 60 days following delivery of final report.

Project Quote

REMP Analysis

Analyte	Matrix	Unit Cost
Gross beta	Water	$ 50.00
Tritium	Water	$ 65.00
Gamma PHA (see attached list of isotopes	Water	$ 110.00
I-131 (detection limit of 1 pCi/L	Water	$ 120.00
Gross beta	air filter	$ 50.00
Gamma PHA (see attached list of isotopes	air filter	$ 110.00
Gamma PHA (see attached list of isotopes	Fish	$ 135.00
Gamma PHA (see attached list of isotopes	Milk	$ 120.00
I-131 (detection limit of 1 pCi/L	Milk	$ 175.00
Gamma PHA (see attached list of isotopes	Food	$ 135.00
Gamma PHA (see attached list of isotopes	Sediment	$ 120.00

Point of Contact
Robert Wills
robert.wills@mail.gel.com
(843) 556-8171 phone
(843) 766-1178 fax

Shipping Address
General Engineering Laboratories, LLC
2040 Savage Road
Charleston, SC 29407

All work requires submission of a valid PO or signed acknowledgement of this quotation and is subject to GEL's Standard Terms & Conditions. Client specified QC will be invoiced at the applicable unit rates. Standard MDAs and MDLs assume sufficient sample volume is received for analysis. Payment terms are net 30 days. Upon acceptance, unit prices are valid for a period of one year.

ACCEPTED BY: _____ DATE: _____ PO #_____

General Engineering Laboratories, LLC
P.O. Box 30712
Charleston, SC 29417
(843) 556-8171, phone
(843) 766-1178, fax
www.gel.net

QUOTE REFERENCE NO. GELP03-0258	
PRICE QUOTATION	
Prepared For:	Einar T. Ronningen SMUD 14440 Twin Cities Road Herald, CA 95638-9799 916-732-4817
Date:	14-Apr-03
Revision No.	0

General Engineering Laboratories, LLC is pleased to submit this quotation for the referenced project. Prices are valid for 60 days and may be extended upon request. As part of our commitment to the success of your project, Robert Wills has been designated as your GEL Project Manager to assist in the implementation of your project requirements. Thank you for the opportunity to submit this quote for analytical requirements and we look forward to working with you on this project.

Project Specifications

Quotation Date:	April 14, 2003	Start Date:	to be determined
Quotation Reference:	Bob Wills	Shipment Costs:	GEL will ship bottles and coolers non-priority to site. Priority shipments to the site and shipments to GEL are the responsibility of Pilgrim Nuclear Power Plant.
TAT	28 calendar days	Data Deliverable:	Level II COA and QC summary; no EDD
Detection Limits	GEL's standard MDAs, MDLs and PQLs MDA for Gamma Spectroscopy based on Cesium 137	Waste Disposal:	Samples will be retained for no longer than 60 days following delivery of final report.

Project Quote

10CRF61 and Envirocare

Analyte	MDA (typical)	Matrix	Quantity	Unit Cost

10CFR61 Analyses

Americium 241, Curium242, 243/244, 245/24	0.5 pCi/g	Envirocare Testing	IDIQ	$	143.55
Plutonium 238, 239/240	0.5 pCi/g	Envirocare Testing	IDIQ	$	143.55
Uranium 234, 235, 238	0.5 pCi/g	Envirocare Testing	IDIQ	$	143.55
Plutonium 241	15 pCi/g	Envirocare Testing	IDIQ	$	143.55
Iron 55	5 pCi/g	Envirocare Testing	IDIQ	$	130.50
Gamma PHA (see attached list of isotopes	1 pCi/g (Cs-137)	Envirocare Testing	IDIQ	$	104.40
Nickel 59	10 pCi/g	Envirocare Testing	IDIQ	$	113.10
Nickel 63	4 pCi/g	Envirocare Testing	IDIQ	$	113.10
Strontium 90	2 pCi/g	Envirocare Testing	IDIQ	$	152.25
Tritium	6 pCi/g	Envirocare Testing	IDIQ	$	56.55
Carbon 14	2 pCi/g	Envirocare Testing	IDIQ	$	113.10
Iodine 129	1 pCi/g	Envirocare Testing	IDIQ	$	130.50
Technetium 99	5 pCi/g	Envirocare Testing	IDIQ	$	108.75

RCRA Testing - Envirocare Acceptance Parameters

Heating Value		Envirocare Testing	IDIQ	$	50.00
Ignitability		Envirocare Testing	IDIQ	$	35.00
Corrosivity		Envirocare Testing	IDIQ	$	15.00
Paint Filter		Envirocare Testing	IDIQ	$	20.00
Reactivity - Sulfide and Cyanide		Envirocare Testing	IDIQ	$	120.00
Full TCLP (Vox,Svox,Pest,Herb,Metals+Cu+Zn		Envirocare Testing	IDIQ	$	1,110.00
Gamma Spec	1 pCi/g (Cs-137)	Envirocare Testing	IDIQ	$	120.00
Gross Alpha/Beta	5 pCi/g	Envirocare Testing	IDIQ	$	75.00
Grain Size Analysis		Envirocare Testing	IDIQ	$	140.00
Proctor Test		Envirocare Testing	IDIQ	$	145.00

1. Samples that exceed 1 mR/hr or 3 uCi/sample need to be pre-approved by GEL's RSO prior to shipmen
2. All mixed waste will be returned for disposal.
3. Maximum sample dose rate is 500 mR/hr. Please notify Robert Wills 48 hours prior to shipment with dose rates and activity estimates.
4. GEL will assess the following multipliers based on radioactive sample classification criteria:

Radiological Category	Sample Criteria	Multiplier
Environmental Radioactive	≤ 3uCi/sample and ≤1mR/hr	1.0 x's
RAD II (Standard)	≥3 uCi/sample or > 1mR/hr but ≤ 10 uCi and ≥ 25 mR/hr	1.3x's
RAD II (Special)	> 10 uCi/sample or > 25 mR/hr but ≤ 100 uCi/sample and ≤ 100 mR/hr	1.5x's

Point of Contact
Robert Wills
robert.wills@mail.gel.com
(843) 556-8171 phone
(843) 766-1178 fax

Shipping Address
General Engineering Laboratories, LLC
2040 Savage Road
Charleston, SC 29407

All work requires submission of a valid PO or signed acknowledgement of this quotation and is subject to GEL's Standard Terms & Conditions. Client specified QC will be invoiced at the applicable unit rates. Standard MDAs and MDLs assume sufficient samp

ACCEPTED BY: _____ DATE: _____ PO #_____

General Engineering Laboratories, LLC

Introduction to GEL

Statement of Qualifications

General Engineering Laboratories, LLC
P.O. Box 30712
2040 Savage Road
Charleston, SC 29417
(843) 556-8171

Table of Contents

Section **Tab**

Introduction to GEL I

Laboratory Certifications and Licenses II

List of Instrumentation III

Key Personnel Qualifications IV
Organizational Charts
Personnel Resumes

Quality Assurance Plan V