



November 14, 2014

Mr. Gregory Hisel
St. Francis Hospital
62 Kibbe Rd
Ellington, Connecticut 06029

Re: Total Activity Wipes
Work Order: 359237

Dear Mr. Hisel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 17, 2014. 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. 4443.

Sincerely,

Erin Trent for
Lindsay Fabra
Project Manager

Purchase Order: 0100320614
Enclosures



Certificates of Analysis and QC Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

STFR001 St. Francis Hospital

Client SDG: 359237 GEL Work Order: 359237

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** 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 limit as defined in the 'U' qualifier above.

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, Lindsay Fabra.

Reviewed by _____

Eric S. Trent

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-1	Project: STFR00100
Sample ID: 359237001	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.105	+/-1.43	2.50	5.00	pCi/Filter		GXR1	10/28/14	1723	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-2	Project: STFR00100
Sample ID: 359237002	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.167	+/-1.44	2.51	5.00	pCi/Filter		GXR1	10/28/14	1739	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-3	Project:	STFR00100
Sample ID:	359237003	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	-0.801	+/-1.40	2.50	5.00	pCi/Filter		GXR1	10/28/14	1755 1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-4	Project:	STFR00100
Sample ID:	359237004	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.166	+/-1.44	2.51	5.00	pCi/Filter		GXR1	10/28/14	1811	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-5	Project: STFR00100
Sample ID: 359237005	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.166	+/-1.43	2.51	5.00	pCi/Filter		GXR1	10/28/14	1827	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-1-6 Project: STFR00100
Sample ID: 359237006 Client ID: STFR001
Matrix: Filter
Collect Date: 12-OCT-14 14:00
Receive Date: 17-OCT-14
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	1.03	+/-1.48	2.50	5.00	pCi/Filter		GXR1	10/28/14	1843	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-7	Project:	STFR00100
Sample ID:	359237007	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.522	+/-1.46	2.50	5.00	pCi/Filter		GXR1	10/28/14	1859	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID:	S-1-8	Project:	STFR00100
Sample ID:	359237008	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.572	+/-1.41	2.51	5.00	pCi/Filter		GXR1	10/28/14	1915	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

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GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-9	Project:	STFR00100
Sample ID:	359237009	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.512	+/-1.41	2.51	5.00	pCi/Filter		GXR1	10/28/14	1932	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-10	Project: STFR00100
Sample ID: 359237010	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.0031	+/-1.44	2.51	5.00	pCi/Filter		GXR1	10/28/14	1948	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-11	Project: STFR00100
Sample ID: 359237011	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	0.288	+/-1.45	2.51	5.00	pCi/Filter		GXR1	10/28/14	2004 1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-12	Project:	STFR00100
Sample ID:	359237012	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.227	+/-1.43	2.51	5.00	pCi/Filter		GXR1	10/28/14	2020	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-13	Project:	STFR00100
Sample ID:	359237013	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.125	+/-1.44	2.51	5.00	pCi/Filter		GXR1	10/28/14	2036	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-1-14	Project:	STFR00100
Sample ID:	359237014	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.325	+/-1.45	2.51	5.00	pCi/Filter		GXR1	10/28/14	2052	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID:	S-1-15	Project:	STFR00100
Sample ID:	359237015	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:00		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-1.04	+/-1.39	2.51	5.00	pCi/Filter		GXR1	10/28/14	2108	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-1-16	Project: STFR00100
Sample ID: 359237016	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.832	+/-1.40	2.51	5.00	pCi/Filter		GXR1	10/28/14	2125	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-18	Project: STFR00100
Sample ID: 359237018	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.34	+/-1.42	2.51	5.00	pCi/Filter		GXR1	10/28/14	2157	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-1-19	Project: STFR00100
Sample ID: 359237019	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.772	+/-1.40	2.50	5.00	pCi/Filter		GXR1	10/28/14	2213	1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-1	Project: STFR00100
Sample ID: 359237020	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	-0.646	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/28/14	2229 1430972	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-2	Project: STFR00100
Sample ID: 359237021	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.256	+/-1.42	2.50	5.00	pCi/Filter		GXR1	10/29/14	0102	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

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Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-3	Project: STFR00100
Sample ID: 359237022	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.30	+/-1.42	2.50	5.00	pCi/Filter		GXR1	10/29/14	0118	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-4
 Sample ID: 359237023
 Matrix: Filter
 Collect Date: 12-OCT-14 14:30
 Receive Date: 17-OCT-14
 Collector: Client

Project: STFR00100
 Client ID: STFR001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.643	+/-1.46	2.49	5.00	pCi/Filter		GXR1	10/29/14	0134	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-5	Project: STFR00100
Sample ID: 359237024	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.111	+/-1.44	2.50	5.00	pCi/Filter		GXR1	10/29/14	0150	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-2-6	Project: STFR00100
Sample ID: 359237025	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.44	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0206	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd
 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-7	Project: STFR00100
Sample ID: 359237026	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	-0.567	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0223 1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-8	Project: STFR00100
Sample ID: 359237027	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	1.18	+/-1.48	2.50	5.00	pCi/Filter		GXR1	10/29/14	0239	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-2-9 Project: STFR00100
Sample ID: 359237028 Client ID: STFR001
Matrix: Filter
Collect Date: 12-OCT-14 14:30
Receive Date: 17-OCT-14
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.874	+/-1.39	2.50	5.00	pCi/Filter		GXR1	10/29/14	0255	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-10	Project:	STFR00100
Sample ID:	359237029	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.497	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0311	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-2-11 Project: STFR00100
Sample ID: 359237030 Client ID: STFR001
Matrix: Filter
Collect Date: 12-OCT-14 14:30
Receive Date: 17-OCT-14
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.107	+/-1.44	2.50	5.00	pCi/Filter		GXR1	10/29/14	0327	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-2-12 Project: STFR00100
Sample ID: 359237031 Client ID: STFR001
Matrix: Filter
Collect Date: 12-OCT-14 14:30
Receive Date: 17-OCT-14
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	-1.33	+/-1.37	2.50	5.00	pCi/Filter		GXR1	10/29/14	0343 1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-13	Project:	STFR00100
Sample ID:	359237032	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.639	+/-1.40	2.49	5.00	pCi/Filter		GXR1	10/29/14	0359	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-14	Project:	STFR00100
Sample ID:	359237033	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.0678	+/-1.43	2.50	5.00	pCi/Filter		GXR1	10/29/14	0416	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID: S-2-15
Sample ID: 359237034
Matrix: Filter
Collect Date: 12-OCT-14 14:30
Receive Date: 17-OCT-14
Collector: Client
Project: STFR00100
Client ID: STFR001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.499	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0432	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-16	Project:	STFR00100
Sample ID:	359237035	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.0667	+/-1.44	2.50	5.00	pCi/Filter		GXR1	10/29/14	0448	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-17	Project:	STFR00100
Sample ID:	359237036	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.395	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0504	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	GL-RAD-A-041		

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-2-18	Project: STFR00100
Sample ID: 359237037	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 14:30	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method	
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-1.45	+/-1.37	2.50	5.00	pCi/Filter		GXR1	10/29/14	0520	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd
Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-19	Project:	STFR00100
Sample ID:	359237038	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	0.188	+/-1.44	2.50	5.00	pCi/Filter		GXR1	10/29/14	0536	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029
Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

Client Sample ID:	S-2-20	Project:	STFR00100
Sample ID:	359237039	Client ID:	STFR001
Matrix:	Filter		
Collect Date:	12-OCT-14 14:30		
Receive Date:	17-OCT-14		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.59	+/-1.41	2.50	5.00	pCi/Filter		GXR1	10/29/14	0552	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2014

Company : St. Francis Hospital
 Address : 62 Kibbe Rd

 Ellington, Connecticut 06029
 Contact: Mr. Gregory Hisel
 Project: Total Activity Wipes

Client Sample ID: S-3-1	Project: STFR00100
Sample ID: 359237040	Client ID: STFR001
Matrix: Filter	
Collect Date: 12-OCT-14 15:00	
Receive Date: 17-OCT-14	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint. Total activity "As Received"												
Total Activity	U	-0.176	+/-1.42	2.49	5.00	pCi/Filter		GXR1	10/29/14	0608	1430973	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	

Notes:
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

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

QC Summary

Report Date: November 14, 2014

Page 1 of 2

St. Francis Hospital
62 Kibbe Rd
Ellington, Connecticut

Contact: Mr. Gregory Hisel

Workorder: 359237

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	1430972										
QC1203196631	LCS										
Total Activity	86.9			82.8	pCi/Filter		95.3	(75%-125%)	GXR1	10/28/14	23:01
	Uncertainty			+/-3.50							
QC1203196632	LCSD										
Total Activity	86.9			86.9	pCi/Filter	4.91	100	(0%-20%)		10/28/14	23:18
	Uncertainty			+/-3.57							
QC1203196630	MB										
Total Activity			U	0.600	pCi/Filter					10/28/14	22:45
	Uncertainty			+/-1.46							
Batch	1430973										
QC1203196634	LCS										
Total Activity	86.9			82.7	pCi/Filter		95.2	(75%-125%)	GXR1	10/29/14	06:41
	Uncertainty			+/-3.50							
QC1203196635	LCSD										
Total Activity	86.9			84.2	pCi/Filter	1.84	96.9	(0%-20%)		10/29/14	06:57
	Uncertainty			+/-3.52							
QC1203196633	MB										
Total Activity			U	-1.2	pCi/Filter					10/29/14	06:25
	Uncertainty			+/-1.38							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GEL LABORATORIES LLC

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

QC Summary

Workorder: 359237

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Q											
R											
U											
UI											
UJ											
UL											
X											
Y											
^											
h											

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

R Sample results are rejected

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

UI Gamma Spectroscopy--Uncertain identification

UJ Gamma Spectroscopy--Uncertain identification

UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

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

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

^ 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 or %RPD not applicable.

^ 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.

Chain of Custody and Supporting Documentation

Page: 1 of 16
 Project #: GEL P14-0945
 GEL Quote #: GEL P14-0945
 QC Number (1):
 PO Number:

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Attn: Richard Albcc

GEL Work Order Number: 359237

Client Name: St. Francis Hospital
 Project/Site Name: Hartford, CT #602
 Address:
 Collected by: G. Hisei
 Send Results To: G. Hisei

Phone #: 578-755-7485
 Fax #: 860-856-6333

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (n)	Field Filtered (d)	Sample Matrix (o)	Sample Analysis Requested (5)						TSCA Regulated	Should this sample be considered:	Total number of containers	Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
						1	2	3	4	5	6					
S-1-1	10-12-14	1400	N	M	P									1		
S-1-2																
S-1-3																
S-1-4																
S-1-5																
S-1-6																
S-1-7																
S-1-8																
S-1-9																
S-1-10																

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
 Sample Collection Time Zone: Eastern Pacific Other
 Central Mountain

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards
 Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (Signed) Date Time
 1. [Signature] 10/18/14 1. Fedex
 2. [Signature] 10.16.14 2. [Signature]
 3. [Signature] 3. Airbill #:
 Method of Shipment: Date Shipped:
 Airbill #:

For Lab Receiving Use Only
 Custody Seal Intact? YES NO
 Cooler Temp: C

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 = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 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=Urine, F=Faecal, N=Nasal
 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).
 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
 WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

Page: 2 of 6
 Project #: _____
 GEL Quote #: GEL P14-0945
 QOC Number (1): _____
 PO Number: _____
GEL Chain of Custody and Analytical Request
GEL Work Order Number: _____
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: St. Francis Hospital Phone #: 578-755-7465
 Project/Site Name: Hartford, CT Fax #: 860-856-6333
 Address: _____
 Collected by: G. Hisei Send Results To: G. Hisei

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
						Radioactive	TSCA Regulated			
S-1-11	10-12-14	1700	N	N	P			1		Note: extra sample is required for sample specific QC
S-1-12										
S-1-13										
S-1-14										
S-1-15										
S-1-16										
S-1-17										
S-1-18										
S-1-19										
S-2-1		1430								

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharges) Fax Results: Yes / No
 Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
 Sample Collection Time Zone: Eastern Pacific Other _____
 Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures		Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Received by (signed)	Date
<u>Doug M...</u>	<u>10/14/14</u>	<u>Fedex</u>	
		<u>10.16.14</u>	<u>0840</u>

Method of Shipment: _____ Date Shipped: _____
 Airbill #: _____
 Airbill #: _____
 For Lab Receiving Use Only
 Custody Seal Intact? YES / NO
 Cooler Temp: _____

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 = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Soil, SS=Sludge, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 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).
 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
 WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

GEL Chain of Custody and Analytical Request

Project #: 3 of 16
 GEL Quote #: GEL P14-0945
 COC Number (0): _____
 PO Number: _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____

Client Name: St. Francis Hospital Phone # 803-755-7465
 Project/Site Name: Hartford, CT Fax #: 866-856-6333
 Address: _____

Collected by: G. Hisei Send Results To: G. Hisei

Sample ID

* For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (0)	Field Filtered (0)	Sample Matrix (0)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (6)	Comments
						Radioactive			
S-2-2	10-12-14	1430	N	N	P		1		Total activity
S-2-3									
S-2-4									
S-2-5									
S-2-6									
S-2-7									
S-2-8									
S-2-9									
S-2-10									
S-2-11									

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

Sample Collection Time Zone: Eastern Pacific Other _____

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	<u>10/14/14</u>		<u>Federal</u>		
			<u>Frank Edwards</u>	<u>10.16.14</u>	<u>0840</u>

GEL PM: _____
 Method of Shipment: _____ Date Shipped: _____
 Airbill #: _____
 Airbill #: _____

Chain of Custody Number = Client Determined

1.) 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 = Composite

2.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

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=Urine, F=Feecal, N=Nasal

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).

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

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
 Custody Seal Intact? YES NO
 Cooler Temp: C

GEL Chain of Custody and Analytical Request

Project #: 4 of 16
 GEL Quote #: GEL P14-0945
 COC Number (1): _____
 PO Number: _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____

Client Name: St. Francis Hospital Phone #: _____
 Project/Site Name: _____ Fax #: _____
 Address: _____

Send Results To: _____

Sample ID <small>* For composites - Indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
						Radioactive	TSCA Regulated				
S-2-12	10/12/14	1430	N	N	P			1			Note: extra sample is required for sample specific QC
S-2-13											
S-2-14											
S-2-15											
S-2-16											
S-2-17											
S-2-18											
S-2-19											
S-2-20											
S-3-1		1500									

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 these samples? If so, please list the hazards

Chain of Custody Signatures		Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Received by (signed)	Date
<u>[Signature]</u>	10/14/17	<u>[Signature]</u>	

GEL PM: _____
 Method of Shipment: _____ Date Shipped: _____
 Airbill #: _____
 Airbill #: _____

For Lab Receiving Use Only

Custody Seal Intact? YES NO
 Cooler Temp: _____ C

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 = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 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 = Urine, F = Fecal, N = Nasal
 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).
 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

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

SAMPLE RECEIPT & REVIEW FORM

Client: <u>St. Francis</u>		SDG/AR/COC/Work Order: <u>359237</u>	
Received By: <u>BE</u>		Date Received: <u>10.16.14</u>	
Suspected Hazard Information	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>19</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>130409962</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Sample ID's and containers affected:
7 Are Encore containers present?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Sample ID's affected: <u>none on samples</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Are sample containers identifiable as GEL provided?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14 Carrier and tracking number.	<input type="checkbox"/>			Circle Applicable: FedEx Air <u>FedEx Ground</u> UPS Field Services Courier Other <u>9622 0019 0</u> <u>(000 448 3673 4)</u> <u>00 7714 8934 0330</u>

Comments (Use Continuation Form if needed):

Data Package Qualifier Definitions

Data Review Qualifier Definitions

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
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
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
N	Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
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
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

- P Organics-The concentrations between the primary and confirmation columns/detectors is >40% difference.
For HPLC, the difference is >70%.
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Laboratory Certifications

List of current GEL Certifications as of 14 November 2014

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790