

GENERAL ENGINEERING LABORATORIES, LLC

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

Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: DA-1
Sample ID: 106869006
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 4.06%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		11.1		0.984	10.0	ug/kg	1	NOR1	02/17/04	1249	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		5.59		0.211	0.512	mg/kg	1	RMJ	02/13/04	1710	309337	2
Barium		96.7		0.0683	0.512	mg/kg	1					
Beryllium		0.909		0.0512	0.512	mg/kg	1					
Cadmium	J	0.138		0.0489	0.512	mg/kg	1					
Chromium		26.1		0.165	0.512	mg/kg	1					
Lead		12.4		0.290	0.512	mg/kg	1					
Selenium		3.67		0.166	0.512	mg/kg	1					
Silver	U	ND		0.0924	0.512	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.04	3.47	ug/kg	1	JMW1	02/13/04	1628	309327	3
Aroclor-1221	U	ND		2.94	3.47	ug/kg	1					
Aroclor-1232	U	ND		1.74	3.47	ug/kg	1					
Aroclor-1242		7.00		1.74	3.47	ug/kg	1					
Aroclor-1248	U	ND		1.04	3.47	ug/kg	1					
Aroclor-1254	U	ND		0.521	3.47	ug/kg	1					
Aroclor-1260	U	ND		1.04	3.47	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Client Sample ID: DA-1
Sample ID: 106869006
Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				73						
Decachlorobiphenyl		8082/3550B PCB in Soil				74						

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

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

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Brandeis
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: April 6, 2004

Page 1 of 2

Client Sample ID: DA1
Sample ID: 109111016
Matrix: Soil
Collect Date: 15-MAR-04 15:05
Receive Date: 16-MAR-04
Collector: Client
Moisture: 3.89%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-Volatiles-PCB											
<i>8082/3550B PCB in Soil</i>											
Aroclor-1016	U	ND		1.04	3.47	ug/kg	1	JMW103/25/04	0119	317784	1
Aroclor-1221	U	ND		2.93	3.47	ug/kg	1				
Aroclor-1232	U	ND		1.73	3.47	ug/kg	1				
Aroclor-1242	U	ND		1.73	3.47	ug/kg	1				
Aroclor-1248	U	ND		1.04	3.47	ug/kg	1				
Aroclor-1254	U	ND		0.520	3.47	ug/kg	1				
Aroclor-1260	U	ND		1.04	3.47	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	GRB2	03/18/04	2340	317783

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	73	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	79	(51%-121%)

Notes:

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.

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Report Date: April 6, 2004

Contact: Joel I. Cehn, CHP

Project: **BBI**

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Client Sample ID: DA1
Sample ID: 109111016

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Reviewed by

Certificate of Analysis

Company : Brandeis
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: April 6, 2004

Contact: Joel I. Cehn, CHP
 Project: **BBI**

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Client Sample ID: DA2
 Sample ID: 109111017
 Matrix: Soil
 Collect Date: 15-MAR-04 15:10
 Receive Date: 16-MAR-04
 Collector: Client
 Moisture: 2.49%

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-Volatiles-PCB											
<i>8082/3550B PCB in Soil</i>											
Aroclor-1016	U	ND		1.03	3.42	ug/kg	1	JMW103/25/04	0131	317784	1
Aroclor-1221	U	ND		2.89	3.42	ug/kg	1				
Aroclor-1232	U	ND		1.71	3.42	ug/kg	1				
Aroclor-1242	U	ND		1.71	3.42	ug/kg	1				
Aroclor-1248	U	ND		1.03	3.42	ug/kg	1				
Aroclor-1254	U	ND		0.513	3.42	ug/kg	1				
Aroclor-1260	U	ND		1.03	3.42	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	GRB2	03/18/04	2340	317783

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	77	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	87	(51%-121%)

Notes:

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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.

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Report Date: April 6, 2004

Contact: Joel I. Cehn, CHP

Project: **BBI**

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Client Sample ID: DA2
Sample ID: 109111017

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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

Certificate of Analysis

Company : MKM Engineers
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: April 25, 2006

Contact: Mr. Joel I. Cehn, CHP
 Project: **BBI**

Client Sample ID:	DA-1	Project:	MKME00104
Sample ID:	159984016	Client ID:	MKME001
Matrix:	Soil		
Collect Date:	03-APR-06 14:20		
Receive Date:	06-APR-06		
Collector:	Client		
Moisture:	15.3%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		13.1	39.3	ug/kg	10	RAW	04/11/06	1439	519467	1
Aroclor-1221	U	ND		13.1	39.3	ug/kg	10					2
Aroclor-1232	U	ND		13.1	39.3	ug/kg	10					
Aroclor-1242	U	ND		13.1	39.3	ug/kg	10					
Aroclor-1248	U	ND		13.1	39.3	ug/kg	10					
Aroclor-1254	U	ND		13.1	39.3	ug/kg	10					
Aroclor-1260	U	ND		13.1	39.3	ug/kg	10					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	BXM1	04/10/06	2032	519465

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	5.14	7.87	65	(39%–123%)
Decachlorobiphenyl	8082/3550B PCB in Soil	5.08	7.87	65	(30%–125%)