
MEMORANDUM

TO: GARY BRENNGLASS

FROM: JOEL I. CEHN

SUBJECT: TESTING

DATE: JULY 21, 2004

CC: HELEN ZUKIN

I have the lab results for the June sampling. I collected produce from various gardens and groves, but the bulk of the sampling was split sampling with Boeing at the new well: OS-9R. In short, all tests were negative for perchlorate. In addition, water samples (15) from the well were all negative for tritium too. Produce is not usually tested for tritium, which requires a volume of liquid for testing.

The only significant finding this year is the perchlorate detected in BBI milk. The sample I took from the local market was also positive. It turns out there have been many reports of this. Six milk samples collected in Texas last year were all positive (from 1.7 to 6.4 parts per billion-ppb). The BBI sample was at 14 ppb and the Simi market sample was 4.9 ppb. The market sample matches the Texas report, while the BBI sample was higher. I suspect the difference is that the BBI milk is raw (unprocessed), and perchlorate may be lost in processing. If we want to follow up on this, we'll need to re-sample the BBI herd and another local herd—both raw samples.

I am enclosing a summary table and the lab reports, along with my invoice for the work in June.

Call or email if you have any questions.

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

Report Date: July 8, 2004

Page 1 of 1

Client Sample ID: VHO-01,Citrus
Sample ID: 115119001
Matrix: Vegetation
Collect Date: 14-JUN-04 15:30
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		5.00	20.0	ug/kg	10	MAP	06/23/04	0950	343035	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	MAP	06/22/04	1250	343032

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- 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.
- 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 an "as received" basis.

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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 _____

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Client Sample ID: MGG01, Tomatoes
Sample ID: 115119002
Matrix: Vegetation
Collect Date: 14-JUN-04 14:30
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		5.00	20.0	ug/kg	10	MAP	06/23/04	1004	343035	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	MAP	06/22/04	1250	343032

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Notes:

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- 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.
- 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.

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Project: **BBI**

Report Date: July 8, 2004

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Client Sample ID: MGG02, Apricots
Sample ID: 115119003
Matrix: Vegetation
Collect Date: 14-JUN-04 14:45
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		5.00	20.0	ug/kg	10	MAP	06/23/04	1055	343035	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	MAP	06/22/04	1250	343032

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Notes:

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- 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.
- 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.

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Project: **BBI**

Report Date: July 8, 2004

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Client Sample ID: ARG-3,Zuccinni
Sample ID: 115119004
Matrix: Vegetation
Collect Date: 14-JUN-04 14:40
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		5.00	20.0	ug/kg	10	MAP	06/23/04	1112	343035	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	MAP	06/22/04	1250	343032

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Notes:

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- H Analytical holding time exceeded.
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- 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.
- 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.

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

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Client Sample ID: ARG-01, Apricots
 Sample ID: 115119005
 Matrix: Vegetation
 Collect Date: 14-JUN-04 15:15
 Receive Date: 17-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		5.00	20.0	ug/kg	10	MAP	06/23/04	1140	343035	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	MAP	06/22/04	1250	343032

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Notes:

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- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- 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.

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Project: **BBI**

Page 1 of 2

Client Sample ID: OS9RP17500
Sample ID: 115119006
Matrix: Water
Collect Date: 14-JUN-04 13:00
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1338	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-90.5	155	200	pCi/L		JLB1	06/29/04	1355	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

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.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: OS9RP17500
Sample ID: 115119006

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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 Project: **BBI**

Page 1 of 2

Client Sample ID: OSP-9RP16GWS01
 Sample ID: 115119007
 Matrix: Water
 Collect Date: 14-JUN-04 16:22
 Receive Date: 17-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1359	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-87.9	152	200	pCi/L		JLB1	06/29/04	1557	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

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.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Project: **BBI**

Page 2 of 2

Client Sample ID: OSP-9RP16GWS01
Sample ID: 115119007

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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 Project: **BBI**

Page 1 of 2

Client Sample ID: OS9RP15GWS02
 Sample ID: 115119008
 Matrix: Water
 Collect Date: 15-JUN-04 10:10
 Receive Date: 17-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1406	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-88.4	152	200	pCi/L		JLB1	06/29/04	1800	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

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- 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.
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Project: **BBI**

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Client Sample ID: OS9RP15GWS02
Sample ID: 115119008

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: **BBI**

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Client Sample ID: OS9RP14GW503
Sample ID: 115119009
Matrix: Water
Collect Date: 15-JUN-04 12:25
Receive Date: 17-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1413	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-89.1	155	200	pCi/L		JLB1	06/29/04	2002	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

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- 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.
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Client Sample ID: OS9RP14GW503
Sample ID: 115119009

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Contact: Mr. Joel I. Cehn, CHP
 Project: **BBI**

Page 1 of 2

Client Sample ID: OS9RP13GW504
 Sample ID: 115119010
 Matrix: Water
 Collect Date: 15-JUN-04 14:51
 Receive Date: 17-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1443	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-86.1	152	200	pCi/L		JLB1	06/29/04	2205	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

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2	EPA 906.0 Modified	

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- 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.

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Project: **BBI**

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Client Sample ID: OS9RP13GW504
Sample ID: 115119010

Project: MKME00104
Client ID: MKME001

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

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

Report Date: July 8, 2004

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

Page 1 of 2

Client Sample ID: OS9RP12GW05
 Sample ID: 115119011
 Matrix: Water
 Collect Date: 16-JUN-04 09:40
 Receive Date: 17-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/21/04	1453	342232	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-87.4	151	200	pCi/L		JLB1	06/30/04	0008	342674	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/21/04	0712	342231

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

Certificate of Analysis

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

Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

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Project: **BBI**

Client Sample ID: OS9RP12GW05
Sample ID: 115119011

Project: MKME00104
Client ID: MKME001

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

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

Report Date: July 8, 2004

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

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Client Sample ID: OS9R09GWD01
 Sample ID: 115339001
 Matrix: Water
 Collect Date: 17-JUN-04 10:35
 Receive Date: 22-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1506	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-102	180	200	pCi/L		JLB1	06/30/04	0905	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
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Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: OS9R09GWD01
Sample ID: 115339001

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Company : MKM Engineers
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 Oakland, California 94610

Report Date: July 8, 2004

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

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Client Sample ID: OS9RP03GWS14
 Sample ID: 115339002
 Matrix: Water
 Collect Date: 18-JUN-04 14:06
 Receive Date: 22-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1527	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-99.6	173	200	pCi/L		JLB1	06/30/04	1037	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

Certificate of Analysis

Company : MKM Engineers
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Oakland, California 94610

Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

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Client Sample ID: OS9RP03GWS14
Sample ID: 115339002

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Company : MKM Engineers
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: July 8, 2004

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

Page 1 of 2

Client Sample ID: OS9RP04GWS13
 Sample ID: 115339003
 Matrix: Water
 Collect Date: 18-JUN-04 12:35
 Receive Date: 22-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1534	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-97.1	171	200	pCi/L		JLB1	06/30/04	1210	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

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Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

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Project: **BBI**

Client Sample ID: OS9RP04GWS13
Sample ID: 115339003

Project: MKME00104
Client ID: MKME001

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

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

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

Report Date: July 8, 2004

Page 1 of 2

Client Sample ID: OS9RP05GWS12
Sample ID: 115339004
Matrix: Water
Collect Date: 18-JUN-04 10:35
Receive Date: 22-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1541	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-95.3	169	200	pCi/L		JLB1	06/30/04	1342	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

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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.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Company : MKM Engineers
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Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: OS9RP05GWS12
Sample ID: 115339004

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Company : MKM Engineers
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 Oakland, California 94610

Report Date: July 8, 2004

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

Page 1 of 2

Client Sample ID: OS9RP06GWS11
 Sample ID: 115339005
 Matrix: Water
 Collect Date: 18-JUN-04 09:00
 Receive Date: 22-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1548	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-96.7	165	200	pCi/L		JLB1	06/30/04	1515	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

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- 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.

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Certificate of Analysis

Company : MKM Engineers
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Oakland, California 94610

Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Page 2 of 2

Project: **BBI**

Client Sample ID: OS9RP06GWS11
Sample ID: 115339005

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Contact: Mr. Joel I. Cehn, CHP
Project: **BBI**

Report Date: July 8, 2004

Page 1 of 2

Client Sample ID: OS9RP09GWS08
Sample ID: 115339006
Matrix: Water
Collect Date: 17-JUN-04 09:25
Receive Date: 22-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1616	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-100	174	200	pCi/L		JLB1	06/30/04	1648	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

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- 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.

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Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: OS9RP09GWS08
Sample ID: 115339006

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Report Date: July 8, 2004

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

Page 1 of 2

Client Sample ID: 0S9R910GWS07
 Sample ID: 115339007
 Matrix: Water
 Collect Date: 16-JUN-04 14:12
 Receive Date: 22-JUN-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1626	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-98.2	170	200	pCi/L		JLB1	06/30/04	1820	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

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Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: 0S9R910GWS07
Sample ID: 115339007

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

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

Report Date: July 8, 2004

Page 1 of 2

Client Sample ID: OS9RP11GWS06
Sample ID: 115339008
Matrix: Water
Collect Date: 16-JUN-04 12:10
Receive Date: 22-JUN-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	MAP	06/22/04	1633	343334	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-102	172	200	pCi/L		JLB1	06/30/04	1953	345135	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	MAP	06/22/04	1147	343333

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- 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 an "as received" basis.

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Oakland, California 94610

Report Date: July 8, 2004

Contact: Mr. Joel I. Cehn, CHP

Project: **BBI**

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Client Sample ID: OS9RP11GWS06
Sample ID: 115339008

Project: MKME00104
Client ID: MKME001

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