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ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

9/27/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-265-0295
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 3 sample(s) on 9/22/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	NELAP	#100456		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106				

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 9/27/2010

Report Number : **10-265-0295**

REPORT OF ANALYSIS

Received : 9/22/2010

Lab No : **82857**
Sample ID : **MW4**
Matrix: **Aqueous**
Sampled: **9/22/2010 11:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	<0.005	mg/L	0.005	1	09/23/10 17:31	JTR	EPA-200.7
Chromium, Hexavalent	<0.01	mg/L	0.01	1	09/23/10 09:00	TKB	SM-3500CrB

Lab No : **82858**
Sample ID : **MW10**
Matrix: **Aqueous**
Sampled: **9/22/2010 12:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	<0.005	mg/L	0.005	1	09/23/10 17:38	JTR	EPA-200.7
Chromium, Hexavalent	<0.01	mg/L	0.01	1	09/23/10 09:00	TKB	SM-3500CrB

Lab No : **82859**
Sample ID : **MW31R**
Matrix: **Aqueous**
Sampled: **9/22/2010 13:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	<0.005	mg/L	0.005	1	09/23/10 17:45	JTR	EPA-200.7
Chromium, Hexavalent	<0.01	mg/L	0.01	1	09/23/10 09:00	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-265-0295**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 09/22/2010 17:03:51

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

SAS Environmental, Inc.
UT - Collierville, TN
10-265-0295
03446
2010-09-22
17:03:38

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill to XDD-LLC	JFO121@aol.com mallen@SASENVIRONMENTAL.com	

GW	Grou
SW	Surf
DW	Drin
WW	Was
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ Special Method Requirements

Purchase Order Number: Bill to XDD-LLC

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Total Cr	Cr+6										ETC Laboratory Sample Number (for laboratory use only)
9-22-10	1125	MW 4	GW	2	X	X										
9-22-10	1220	MW 10	GW	2	X	X										
9-22-10	1310	MW 31R	GW	2	X	X										

JFO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	4C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	09-22-10	1605			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
[signature]	09-22-10	1605			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
			[signature]	9.22.10	1605

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 4/09

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3/24/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-081-0264
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 3/22/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

ACCREDITED IN ACCORDANCE WITH nelac

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 3/24/2011

Report Number : **11-081-0264**

REPORT OF ANALYSIS

Received : 3/22/2011

Lab No : **90857**
Sample ID : **MW60**

Matrix: **Aqueous**
Sampled: **3/22/2011 13:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	03/23/11 09:05	TKM	3500CrB

Lab No : **90858**
Sample ID : **MW62**

Matrix: **Aqueous**
Sampled: **3/22/2011 14:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	03/23/11 09:05	TKM	3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-081-0264**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 03/22/2011 15:39:17

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc
UT - Collierville, TN

11-081-0264
03446
2011-03-22
15:39:02

Client Name	Client Project Manager/Contact	Phone #
SASENVIRONMENTAL INC	MARK V. ALLEN	330 666 1546

Project/ Site Location	email Address
UT COLLIERVILLE	JFOTZ@COL.COM M.ALLEN@SASENVIRONMENTAL.COM

Project Number	FID #	Purchase Order Number
031091		Bill to RDD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply.
- The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

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2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Cr+6
3-22-11	1350	MW 60	1	GW	GRAB	X
3-22-11	1435	MW 62	1	GW	GRAB	X

JFO

Matrix
WW - Wastewater GW Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): J Frank O'Connell Jr / SAS

Client Remarks/Comments

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y N	4C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	3-22-11	1534			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature]	3-22-11	1534

SAFEGUARD Form No. 811-2/W09CS000060 5/10

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12/15/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-348-0278
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 12/14/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	VA NELAP	#460181	Texas	#T104704180-11-6	Arkansas	#88-0650
Mississippi		California	#09267CA	NC	#415	Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 12/15/2011

Report Number : **11-348-0278**

REPORT OF ANALYSIS

Received : 12/14/2011

Lab No : **89612**
Sample ID : **MW60**
Matrix: **Aqueous**
Sampled: **12/14/2011 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	12/14/11 17:20	TKM	3500CrB

Lab No : **89613**
Sample ID : **MW62**
Matrix: **Aqueous**
Sampled: **12/14/2011 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	12/14/11 17:20	TKM	3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-348-0278**

Shipping Method

○ Fed Ex ○ UPS ○ US Postal ● Client ○ Lab ○ Courier ○ Other :

Shipping container/cooler uncompromised?	● Yes	○ No	
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments: Samples received on ice and cooling process started.

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 12/14/2011 15:15:49

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc.
UT - Collierville, TN

11-348-0278
03446
2011-12-14
15:15:28

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC 1486 MEDINA ROAD SUITE 201 MEDINA OH 44256	MARK V. ALLEN	330 239 9800 (NEW NUMBER)

Project/ Site Location	email Address
UT COLLIERVILLE	mallen@SASENVIRONMENTAL.com

Project Number	FID #	Purchase Order Number
031091		Bill to KDD-LLC

Type of Event	Method of Shipment
Single Daily Weekly Monthly Quarterly Semi-Annual	IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply. The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

nelac

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Cr+6
12-14-11	1315	MW 60	1	GW	GRAB	X
12-14-11	1405	MW 62	1	GW	GRAB	X

JFO

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): J FRANK O'CONNELL JR /SAS

Client Remarks/Comments: STANDARD TAT
EMAIL RESULTS TO JFO121@AOL.COM
Bill to KDD-LLC ATTN: BRUCE CLIFF

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y N		samples rcvd. on ice + cooling process started. PD 12/14

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	12-14-11	1508			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature] Smith	12.14.11	15:00

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"A Laboratory Management Partner"

12/22/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 10-354-0294
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 12/20/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	NELAP	#100456		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106				

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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 12/22/2010

Report Number : **10-354-0294**

REPORT OF ANALYSIS

Received : 12/20/2010

Lab No : **94614**
Sample ID : **MW60**

Matrix: **Aqueous**
Sampled: **12/20/2010 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	12/20/10 00:00	TKB	3500CrB

Lab No : **94615**
Sample ID : **MW62**

Matrix: **Aqueous**
Sampled: **12/20/2010 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	12/20/10 00:00	TKB	3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-354-0294**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 12/20/2010 15:46:16

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report

SAS Environmental, Inc.
UT - Collierville TN

10-354-0294
03446
2010-12-20
15:45:53

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1576	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill to KDD-LLC	MALLEN@SASENVIRONMENTAL.COM	

Matrix	
GW	Ground W.
SW	Surface W
DW	Drinking Water
WW	Wastewater
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Purchase Order Number: Bill to KDD-LLC

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Cr+6											ETC Laboratory Sample Number (for laboratory use only)
12-20-10	1405	MW60	GW	1	X											
12-20-10	1440	MW62	GW	1	X											

VFO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	12-20-10	1536			
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE): [signature]	12-20-10	3:39

SAFEGUARD. Form No. 811-2/W09C5000060 4/09

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

3/31/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-089-0298
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 3/30/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 3/31/2010

Report Number : **10-089-0298**

REPORT OF ANALYSIS

Received : 3/30/2010

Lab No : **59985**
Sample ID : **MW60**

Matrix: **Aqueous**
Sampled: **3/30/2010 12:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	03/30/10 12:40	TKB	SM-3500CrB

Lab No : **59986**
Sample ID : **MW62**

Matrix: **Aqueous**
Sampled: **3/30/2010 13:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	03/30/10 12:40	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-089-0298**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 03/30/2010 15:45:30

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

Client Name:	Client Project Manager/Contact	FID #
SAS Environmental Inc	Mark W. Allen	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT Collierville	330 666 1546	In Person
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill to KDB-LLC	mwallen@sasenvironmental.com	

Matrix Key

GW	Ground Water
SW	Surface Water
DW	Drinking Water
WW	Wastewater
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ RUSH - Additional charges may apply.

The following require a Statement of Work
☐ Special Report Requirements
☐ Special Detection Limit(s)
☐ Special Method Requirements

Purchase Order Number: Bill to KDB-LLC

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

SAS Environmental, Inc.
UT Collierville

10-089-0298
03446
2010-03-30
5:43:47

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Cr+6											ETC Laboratory Sample Number (for laboratory use only)
3-30-10	1225	MW 60	GW	1	X											
3-30-10	1330	MW 62	GW	1	X											

NO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	3-30-10	13:50			
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE): [signature]	Date: 3-30-10	Time: 1350

SAFEGUARD Form No. 811-2/W09CS000060 4/09

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6/23/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-172-0275
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 6/21/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 6/23/2010

Report Number : **10-172-0275**

REPORT OF ANALYSIS

Received : 6/21/2010

Lab No : **70784**
Sample ID : **MW60**

Matrix: **Aqueous**
Sampled: **6/21/2010 13:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	06/22/10 08:30	TKB	SM-3500CrB

Lab No : **70785**
Sample ID : **MW62**

Matrix: **Aqueous**
Sampled: **6/21/2010 13:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	06/22/10 08:30	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-172-0275**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 06/21/2010 16:42:57

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330.666 7443	
Purchase Order	**e-mail Address:**	
BILL TO XDD LLC	VFO121@AOL.COM MALLEN@SASENVIRONMENTAL.COM	

Matrix Key

GW	Ground Water
SW	Surface Water
DW	Drinking Water
WW	Wastewater
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ RUSH - Additional charges may apply.

The following require a Statement of Work
☐ Special Report Requirements
☐ Special Detection Limit(s)
☐ Special Method Requirements

Purchase Order Number: BILL TO XDD-LLC BRUCE CLIFF

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

SAS Environmental, Inc.
UT - Collierville, TN
10-172-0275
03446
2010-06-21
6:42:27

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Req: Cr+6											ETC L (for lab
6-21-10	1305	MW 60	GW	1	X											
6-21-10	1355	MW 62	GW	1	X											

VFO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	6-21-10				
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
[signature]	6-21-10	1524			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
			[signature]	6-21-10	1524

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 4/09

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"A Laboratory Management Partner"

6/30/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-180-0271
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 6/29/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

ACCREDITED IN ACCORDANCE WITH nelac

ETC
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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 6/30/2011

Report Number : **11-180-0271**

REPORT OF ANALYSIS

Received : 6/29/2011

Lab No : **91298**
Sample ID : **MW60**
Matrix: **Aqueous**
Sampled: **6/29/2011 13:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	06/29/11 00:00	TKM	3500CrB

Lab No : **91299**
Sample ID : **MW62**
Matrix: **Aqueous**
Sampled: **6/29/2011 12:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	06/29/11 00:00	TKM	3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-180-0271**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 06/29/2011 16:13:30

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

11-180-0271
03446
2011-06-29
16:13:07

SAS Environmental, Inc
UT - Collierville, TN

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	330 666 1546

Project/ Site Location	email Address
UT COLLIERVILLE	mallen@SASENVIRONMENTAL.COM

Project Number	FID #	Purchase Order Number
031091		Bill to XDD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply. The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Cr+6
6-29-11	1300	MW 60	1	GW	Grab	X
6-29-11	1215	MW 62	1	GW	Grab	X

JFO

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): JFRANK OCONNELL JR / SAS

Client Remarks/Comments: STANDARD TAT Bill to XDD-LLC ATTN BRUCE CLIFF
EMAIL RESULTS to JFO121@aol.com

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y / N	4°C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	6-29-11	1411			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature] Smith	6.29.11	1411

SAFEGUARD LITHO USA Form No. 811-2W09CS000060 5/10

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

9/30/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-271-0278
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 9/28/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	VA NELAP	#460181	Texas	#T104704180-11-6	Arkansas	#88-0650
Mississippi		California	#09267CA	NC	#415	Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 9/30/2011

Report Number : **11-271-0278**

REPORT OF ANALYSIS

Received : 9/28/2011

Lab No : **91800**
Sample ID : **MW 60**
Matrix: **Aqueous**
Sampled: **9/28/2011 14:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	09/29/11 08:35	TKM	3500CrB

Lab No : **91801**
Sample ID : **MW 62**
Matrix: **Aqueous**
Sampled: **9/28/2011 14:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.010	mg/L	0.010	1	09/29/11 08:35	TKM	3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-271-0278**

Shipping Method

○ Fed Ex ○ UPS ○ US Postal ● Client ○ Lab ○ Courier ○ Other :

Shipping container/cooler uncompromised?	● Yes	○ No	
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 09/28/2011 16:20:18

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc.
UT - Collierville, TN

11-271-0278
03446
2011-09-28
16:19:48

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	330-239-9800

Project/ Site Location	email Address
UT Collierville	m.allen@sasenvironmental.com

Project Number	FID #	Purchase Order Number
031091		Bill to KDD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply. The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Cr+6
9-28-11	1410	MW 60	1	GW	Grab	X
9-28-11	1455	MW 62	1	GW	Grab	X

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): J Frank O'Connell Jr / SAS

Client Remarks/Comments: STANDARD TAT
EMAIL RESULTS TO JFOIZI@COLICOM
Bill to KDD-LLC ATTN BRUCE CLIFF

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	9-28-11	1535			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature]	9.28.11	1535

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y / N	4°C	

ETC
www.etcmemphis.com
ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

9/24/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-265-0296
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 2 sample(s) on 9/22/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	NELAP	#100456		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106				

nelac

ETC
www.etcmemphis.com
ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 9/24/2010

Report Number : **10-265-0296**

REPORT OF ANALYSIS

Received : 9/22/2010

Lab No : **82855**
Sample ID : **MW62**

Matrix: **Aqueous**
Sampled: **9/22/2010 15:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	09/23/10 09:00	TKB	SM-3500CrB

Lab No : **82856**
Sample ID : **MW60**

Matrix: **Aqueous**
Sampled: **9/22/2010 14:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	<0.01	mg/L	0.01	1	09/23/10 09:00	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC
www.etcmemphis.com
Environmental Testing & Consulting, Inc.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-265-0296**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	● Yes	○ No	○ N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 09/22/2010 17:02:41

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

SAS Environmental, Inc
UT - Collierville, TN

10-265-0296
03446
2010-09-22
17:02:17

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	3306661546	IN PERSON
Project Number	**Fax Number:**	
031091	330 6667443	
Purchase Order	**e-mail Address:**	
Bill to XDD-LLC	JFO121@QOL.COM m.allen@SASENVIRONMENTAL.com	

GW	Grou
SW	Surf
DW	Drini
WW	Was
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ Special Method Requirements

Purchase Order Number:
Bill to XDD-LLC

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	~~Total Cr~~ Cr+6											ETC Laboratory Sample Number (for laboratory use only)
9-22-10	1505	MW62	GW	1	X											
9-22-10	1425	MW60	GW	1	X											

JFO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION) (PRINT):
	1.4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	09-22-10	1605			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
[signature]	09-22-10	1605			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
			[signature]	9.22.10	1605

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 4/09

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T50297

Sampling Date: 03/30/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **30**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

United Technology Corporation

Job No: T50297

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T50297-1	03/30/10	12:25	JFO	03/31/10	AQ	Ground Water	MW60
T50297-2	03/30/10	13:30	JFO	03/31/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T50297
Site:	XDD/UT Collierville/031091	**Report Date**	4/12/2010 12:07:52 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 03/30/2010 and were received at Accutest on 03/31/2010 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of T50297. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VC369

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T50047-1MS, T50047-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, cis-1,2-Dichloroethylene are outside control limits.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Methyl ethyl ketone, trans-1,3-Dichloropropene, Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Bromoform, cis-1,3-Dichloropropene, Methyl ethyl ketone, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 1,1,2-Trichloroethane, 1,2-Dichloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Bromoform, Dibromochloromethane, Methyl ethyl ketone are outside control limits for sample T50047-1MSD.
- Sample(s) T50047-1MSD, T50297-1, T50297-2 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VC375

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP11476

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T50297-1DUP, T50297-1MS, T50297-1MSD, T50297-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Zinc are outside control limits for sample MP11476-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T50297-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0007956.D	1	04/05/10	RR	n/a	n/a	VC369
Run #2 [a]	C0008100.D	1	04/09/10	RR	n/a	n/a	VC375

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T50297-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	78%	91%	75-121%
2037-26-5	Toluene-D8	98%	89%	87-119%
460-00-4	4-Bromofluorobenzene	86%	79%	80-133%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T50297-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4649
(2) Prep QC Batch: MP11476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T50297-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0007957.D	1	04/05/10	RR	n/a	n/a	VC369
Run #2 [a]	C0008101.D	1	04/09/10	RR	n/a	n/a	VC375

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T50297-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	79%	93%	75-121%
2037-26-5	Toluene-D8	101%	87%	87-119%
460-00-4	4-Bromofluorobenzene	83%	79%	80-133%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T50297-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	04/06/10	04/08/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4649
(2) Prep QC Batch: MP11476

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

T50297

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T50297

Client / Reporting Information

Company Name: SAS Environmental Inc
Address: 1270 S. Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark H. Allen E-mail: mallen@sasenvironmental.com
Phone #: 330 666 1546
Sampler's Name: Frank O'Connell Jr

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis

VOC 8260
Total Cr / Lead / Zinc

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260	Total Cr / Lead / Zinc	LAB USE ONLY
6	MW 60		3-30-10	1225	JFO	GW	4	3		1						X	X	
6	MW 62		3-30-10	1330	JFO	GW	4	3		1						X	X	

JFO

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

Log in under UTC
Standard TAT
Email Results to JFO121@aol.com
Bill to KOP LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	3-30-10 / 1845	1 FEDEX	2	3-30-10 / 1845	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4 FEDEX	Date Time: 3-31-10 1437	Received by: 4 [signature]
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 1.2°C

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T50297: Chain of Custody
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SAMPLE INSPECTION FORM

Accutest Job Number: T50297 Client: SAS Environmental Date/Time Received: 3-31-10 930

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +.4°C

Cooler Temps: #1: 1.2°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 3-31-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature]

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

T50297: Chain of Custody
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SAMPLE RECEIPT LOG

JOB #: T50297 DATE/TIME RECEIVED: 3-31-10 930

CLIENT: SAS Environmental INITIALS: E C

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-60	3-30-10	W	500	1	1-J	1 2 (3) 4 5 6 7 8	(<2)	>12
↓	1	"	↓	↓	40	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	2	MW-62			500	1	1-J	1 2 (3) 4 5 6 7 8	(<2)	>12
↓	2	"	↓	↓	40	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

3/31/10 EC

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T50297: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC369-MB	C0007945.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC369-MB	C0007945.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Method Blank Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC375-MB	C0008099.D	1	04/09/10	RR	n/a	n/a	VC375

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	75-121%
2037-26-5	Toluene-D8	88%	87-119%
460-00-4	4-Bromofluorobenzene	84%	80-133%

Blank Spike Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC369-BS	C0007943.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	88.9	71	62-124
71-43-2	Benzene	25	25.7	103	76-118
75-27-4	Bromodichloromethane	25	22.8	91	68-107
75-25-2	Bromoform	25	18.4	74	64-103
108-90-7	Chlorobenzene	25	25.5	102	74-111
75-00-3	Chloroethane	25	22.7	91	75-135
67-66-3	Chloroform	25	25.9	104	75-117
75-15-0	Carbon disulfide	25	25.7	103	57-126
56-23-5	Carbon tetrachloride	25	27.1	108	75-125
75-34-3	1,1-Dichloroethane	25	26.8	107	76-121
75-35-4	1,1-Dichloroethylene	25	22.0	88	71-128
107-06-2	1,2-Dichloroethane	25	24.2	97	70-111
78-87-5	1,2-Dichloropropane	25	25.7	103	71-113
124-48-1	Dibromochloromethane	25	21.3	85	69-104
156-59-2	cis-1,2-Dichloroethylene	25	28.7	115* [a]	68-113
10061-01-5	cis-1,3-Dichloropropene	25	21.4	86	71-111
156-60-5	trans-1,2-Dichloroethylene	25	26.1	104	70-125
10061-02-6	trans-1,3-Dichloropropene	25	19.7	79	75-111
100-41-4	Ethylbenzene	25	23.9	96	75-112
591-78-6	2-Hexanone	125	69.9	56*	60-113
108-10-1	4-Methyl-2-pentanone	125	75.5	60*	63-115
74-83-9	Methyl bromide	25	22.9	92	59-132
74-87-3	Methyl chloride	25	20.4	82	56-150
75-09-2	Methylene chloride	25	25.2	101	70-113
78-93-3	Methyl ethyl ketone	125	95.9	77	62-117
100-42-5	Styrene	25	21.3	85	66-100
71-55-6	1,1,1-Trichloroethane	25	26.9	108	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	18.3	73	67-110
79-00-5	1,1,2-Trichloroethane	25	20.8	83	69-107
127-18-4	Tetrachloroethylene	25	25.1	100	77-120
108-88-3	Toluene	25	25.1	100	77-114
79-01-6	Trichloroethylene	25	23.9	96	74-117
75-01-4	Vinyl chloride	25	22.0	88	64-121
1330-20-7	Xylene (total)	75	67.9	91	75-111

Blank Spike Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC369-BS	C0007943.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC375-BS	C0008097.D	1	04/09/10	RR	n/a	n/a	VC375

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	75-121%
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	83%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50047-1MS	C0007953.D	1	04/05/10	RR	n/a	n/a	VC369
T50047-1MSD	C0007954.D	1	04/05/10	RR	n/a	n/a	VC369
T50047-1	C0007952.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Compound	T50047-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	66.7	53*	50.5	40*	28*	62-124/21
71-43-2	Benzene	67.3		25	108	163* [a]	101	135* [a]	7	76-118/16
75-27-4	Bromodichloromethane	ND		25	23.2	93	21.1	84	9	68-107/12
75-25-2	Bromoform	ND		25	16.5	66	14.0	56*	16*	64-103/14
108-90-7	Chlorobenzene	ND		25	27.7	111	26.7	107	4	74-111/11
75-00-3	Chloroethane	ND		25	24.4	98	23.9	96	2	75-135/15
67-66-3	Chloroform	ND		25	27.8	111	25.8	103	7	75-117/12
75-15-0	Carbon disulfide	ND		25	31.6	126	29.4	118	7	57-126/13
56-23-5	Carbon tetrachloride	ND		25	31.0	124	27.9	112	11	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	29.3	117	27.9	112	5	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	23.8	95	22.9	92	4	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	23.3	93	19.8	79	16*	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	26.6	106	24.2	97	9	71-113/12
124-48-1	Dibromochloromethane	ND		25	20.6	82	17.5	70	16*	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	28.9	116*	28.0	112	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	17.2	69*	15.9	64*	8	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.6	110	26.5	106	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	16.9	68*	15.8	63*	7	75-111/12
100-41-4	Ethylbenzene	ND		25	27.3	109	26.9	108	1	75-112/12
591-78-6	2-Hexanone	ND		125	57.2	46*	43.6	35*	27*	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	56.7	45*	40.3	32*	34*	63-115/21
74-83-9	Methyl bromide	ND		25	21.2	85	20.0	80	6	59-132/15
74-87-3	Methyl chloride	ND		25	20.1	80	18.7	75	7	56-150/17
75-09-2	Methylene chloride	ND		25	25.3	101	23.9	96	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	68.9	55*	50.2	40*	31*	62-117/21
100-42-5	Styrene	ND		25	23.0	92	22.1	88	4	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	31.0	124	29.7	119	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	14.8	59*	12.6	50*	16	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	20.7	83	17.0	68*	20*	69-107/14
127-18-4	Tetrachloroethylene	ND		25	28.1	112	26.3	105	7	77-120/13
108-88-3	Toluene	ND		25	27.8	111	26.8	107	4	77-114/12
79-01-6	Trichloroethylene	ND		25	26.7	107	25.6	102	4	74-117/12
75-01-4	Vinyl chloride	ND		25	23.8	95	22.5	90	6	64-121/19
1330-20-7	Xylene (total)	ND		75	76.7	102	75.8	101	1	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50297
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50047-1MS	C0007953.D	1	04/05/10	RR	n/a	n/a	VC369
T50047-1MSD	C0007954.D	1	04/05/10	RR	n/a	n/a	VC369
T50047-1	C0007952.D	1	04/05/10	RR	n/a	n/a	VC369

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50297-1, T50297-2

CAS No.	Surrogate Recoveries	MS	MSD	T50047-1	Limits
1868-53-7	Dibromofluoromethane	97%	92%	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	73%*	80%	75-121%
2037-26-5	Toluene-D8	103%	102%	98%	87-119%
460-00-4	4-Bromofluorobenzene	81%	84%	82%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T50297
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11476
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/06/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9	-0.030	<10
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7	0.36	<3.0
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130		
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1	0.42	<20

Associated samples MP11476: T50297-1, T50297-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T50297
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11476
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			04/06/10					04/06/10	
Metal	T50297-1 Original	DUP	RPD	QC Limits	T50297-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	1.1	1.1	0.0	0-20	1.1	391	400	97.5	80-120
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	383	400	95.8	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	15.2	15.6	2.6	0-20	15.2	423	400	102.0	80-120

Associated samples MP11476: T50297-1, T50297-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T50297
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11476 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/06/10

Metal	T50297-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	1.1	399	400	99.5	2.0	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	0.0	390	400	97.5	1.8	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin	anr					
Titanium						
Vanadium	anr					
Zinc	15.2	430	400	103.7	1.6	20

Associated samples MP11476: T50297-1, T50297-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T50297
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11476
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/06/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	398	400	99.5	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	390	400	97.5	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	418	400	104.5	80-120

Associated samples MP11476: T50297-1, T50297-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T50297
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11476
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/06/10

Metal	T50297-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	15.2	38.8	156.0(a)	0-10

Associated samples MP11476: T50297-1, T50297-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T50078

Sampling Date: 03/30/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **39**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Accutest LabLink@43259 13:53 12-May-2010

Sample Summary

United Technology Corporation

Job No: T50078

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T50078-1	03/30/10	09:45		03/31/10	AQ	Ground Water	MW-4
T50078-2	03/30/10	10:25		03/31/10	AQ	Ground Water	MW-10
T50078-3	03/30/10	11:30		03/31/10	AQ	Ground Water	MW-31R
T50078-4	03/30/10	11:40		03/31/10	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T50078
Site:	XDD/UT Collierville/031091	**Report Date**	4/16/2010 2:50:20 PM

4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 03/30/2010 and were received at Accutest on 03/31/2010 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of T50078. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX494

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** VX495

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T50250-9MS, T50250-9MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP11465

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T50067-1DUP, T50067-1MS, T50067-1MSD, T50067-1SDL, T50067-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Zinc are outside control limits for sample MP11465-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Zinc are outside control limits for sample MP11465-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T50078-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0060107.D	25	04/10/10	JL	n/a	n/a	VX494
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1300	ug/l	
71-43-2	Benzene	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2160	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	ug/l	
74-83-9	Methyl bromide	ND	50	ug/l	
74-87-3	Methyl chloride	ND	50	ug/l	
75-09-2	Methylene chloride	ND	130	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	ug/l	
100-42-5	Styrene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethylene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
79-01-6	Trichloroethylene	1390	50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T50078-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	150	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	94%		87-119%
460-00-4	4-Bromofluorobenzene	93%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T50078-1	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	100	3.0	ug/l	1	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	26400	100	ug/l	5	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4659
(2) Prep QC Batch: MP11465

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T50078-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0060108.D	25	04/10/10	JL	n/a	n/a	VX494
Run #2	X0060138.D	1000	04/11/10	JL	n/a	n/a	VX495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1300	ug/l	
71-43-2	Benzene	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	320	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	ug/l	
74-83-9	Methyl bromide	ND	50	ug/l	
74-87-3	Methyl chloride	ND	50	ug/l	
75-09-2	Methylene chloride	ND	130	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	ug/l	
100-42-5	Styrene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethylene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
79-01-6	Trichloroethylene	56700 [a]	2000	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T50078-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	150	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	75-121%
2037-26-5	Toluene-D8	94%	94%	87-119%
460-00-4	4-Bromofluorobenzene	93%	92%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T50078-2	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 3.0	3.0	ug/l	1	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	26.6	20	ug/l	1	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4659
(2) Prep QC Batch: MP11465

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31R		
Lab Sample ID:	T50078-3	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0060136.D	1	04/11/10	JL	n/a	n/a	VX495
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.8	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31R		
Lab Sample ID:	T50078-3	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	93%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31R		
Lab Sample ID:	T50078-3	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.7	3.0	ug/l	1	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	113	20	ug/l	1	04/02/10	04/13/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4659
(2) Prep QC Batch: MP11465

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T50078-4	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0060137.D	1	04/11/10	JL	n/a	n/a	VX495
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.8	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T50078-4	**Date Sampled:**	03/30/10
Matrix:	AQ - Ground Water	**Date Received:**	03/31/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	93%		87-119%
460-00-4	4-Bromofluorobenzene	91%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T50078

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. Cleve-Mass Rd
City: AKRON State: OH Zip: 44321
Project Contact: MARK H. ALLEN E-mail: m.allen@SASENVIRONMENTAL.com
Phone #: 330 666 1546
Sampler's Name: J FRANK O'DONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. Rutherford Rd
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2S2O3	MEOH	EnCore	VOC 8260	LEAD / ZINC
1	MW 4		3-30-10	945	JFO	GW	4	3		1						X	X
2	MW 10		3-30-10	1025	JFO	GW	4	3		1						X	X
3	MW 31R		3-30-10	1130	JFO	GW	4	3		1						X	X
4	DUPLICATE		3-30-10	1140	JFO	GW	3	3								X	

JFO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS TO JFO121@aol.com
BILL TO XDP-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	3-30-10 / 1845	1 FED EX	2	3-30-10 / 1845	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4 FEDEX	Date Time: 3/31/10 9:30	Received by: 4 [signature]
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 1.2

4.1 4

T50078: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T50078 Client: SAS Environmental Date/Time Received: 3-31-10 930

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +.4°C

Cooler Temps: #1: 1.2°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [x] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [x] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: 3-31-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: 03/31/10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

T50078: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T50078 DATE/TIME RECEIVED: 3-31-10 930

CLIENT: SAS Environmental INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-4	3-30-10 945	W	P500	1	1-J	1 2 (3) 4 5 6 7 8	(<2) >12
	1	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	MW-10	1025		P500	1	1-J	1 2 (3) 4 5 6 7 8	(<2) >12
	2	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	3	MW-31 R	1130		P500	1	1-J	1 2 (3) 4 5 6 7 8	(<2) >12
	3	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	4	Duplicate	1140		40	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
	5	Trip Blank	—	WTB	40	1-2	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			3-31-10					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T50078: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX494-MB	X0060095.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX494-MB	X0060095.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	93%	80-133%

Method Blank Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX495-MB	X0060123.D	1	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX495-MB	X0060123.D	1	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Blank Spike Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX494-BS	X0060093.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	124	99	62-124
71-43-2	Benzene	25	23.1	92	76-118
75-27-4	Bromodichloromethane	25	23.1	92	68-107
75-25-2	Bromoform	25	21.1	84	64-103
108-90-7	Chlorobenzene	25	23.0	92	74-111
75-00-3	Chloroethane	25	20.9	84	75-135
67-66-3	Chloroform	25	23.8	95	75-117
75-15-0	Carbon disulfide	25	21.4	86	57-126
56-23-5	Carbon tetrachloride	25	23.8	95	75-125
75-34-3	1,1-Dichloroethane	25	23.4	94	76-121
75-35-4	1,1-Dichloroethylene	25	24.3	97	71-128
107-06-2	1,2-Dichloroethane	25	23.2	93	70-111
78-87-5	1,2-Dichloropropane	25	24.0	96	71-113
124-48-1	Dibromochloromethane	25	21.2	85	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.6	94	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.9	96	75-111
100-41-4	Ethylbenzene	25	23.5	94	75-112
591-78-6	2-Hexanone	125	122	98	60-113
108-10-1	4-Methyl-2-pentanone	125	125	100	63-115
74-83-9	Methyl bromide	25	21.0	84	59-132
74-87-3	Methyl chloride	25	20.0	80	56-150
75-09-2	Methylene chloride	25	20.8	83	70-113
78-93-3	Methyl ethyl ketone	125	124	99	62-117
100-42-5	Styrene	25	21.8	87	66-100
71-55-6	1,1,1-Trichloroethane	25	24.4	98	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	25.2	101	67-110
79-00-5	1,1,2-Trichloroethane	25	23.3	93	69-107
127-18-4	Tetrachloroethylene	25	24.2	97	77-120
108-88-3	Toluene	25	23.1	92	77-114
79-01-6	Trichloroethylene	25	23.9	96	74-117
75-01-4	Vinyl chloride	25	21.4	86	64-121
1330-20-7	Xylene (total)	75	68.9	92	75-111

Blank Spike Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX494-BS	X0060093.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	92%	80-133%

Blank Spike Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX495-BS	X0060121.D	1	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	136	109	62-124
71-43-2	Benzene	25	25.0	100	76-118
75-27-4	Bromodichloromethane	25	25.5	102	68-107
75-25-2	Bromoform	25	23.0	92	64-103
108-90-7	Chlorobenzene	25	24.4	98	74-111
75-00-3	Chloroethane	25	26.0	104	75-135
67-66-3	Chloroform	25	25.7	103	75-117
75-15-0	Carbon disulfide	25	26.2	105	57-126
56-23-5	Carbon tetrachloride	25	25.2	101	75-125
75-34-3	1,1-Dichloroethane	25	25.5	102	76-121
75-35-4	1,1-Dichloroethylene	25	26.8	107	71-128
107-06-2	1,2-Dichloroethane	25	25.6	102	70-111
78-87-5	1,2-Dichloropropane	25	26.1	104	71-113
124-48-1	Dibromochloromethane	25	22.6	90	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.2	105	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.2	101	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.4	102	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.7	103	75-111
100-41-4	Ethylbenzene	25	25.2	101	75-112
591-78-6	2-Hexanone	125	131	105	60-113
108-10-1	4-Methyl-2-pentanone	125	134	107	63-115
74-83-9	Methyl bromide	25	25.1	100	59-132
74-87-3	Methyl chloride	25	24.6	98	56-150
75-09-2	Methylene chloride	25	23.4	94	70-113
78-93-3	Methyl ethyl ketone	125	137	110	62-117
100-42-5	Styrene	25	23.3	93	66-100
71-55-6	1,1,1-Trichloroethane	25	26.1	104	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.9	108	67-110
79-00-5	1,1,2-Trichloroethane	25	26.0	104	69-107
127-18-4	Tetrachloroethylene	25	25.2	101	77-120
108-88-3	Toluene	25	24.8	99	77-114
79-01-6	Trichloroethylene	25	25.5	102	74-117
75-01-4	Vinyl chloride	25	26.8	107	64-121
1330-20-7	Xylene (total)	75	74.9	100	75-111

Blank Spike Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX495-BS	X0060121.D	1	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	93%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50155-4MS	X0060097.D	1	04/10/10	JL	n/a	n/a	VX494
T50155-4MSD	X0060098.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Compound	ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone			125	134	107	129	103	4	62-124/21
71-43-2	Benzene			25	31.2	93	30.4	90	3	76-118/16
75-27-4	Bromodichloromethane			25	23.7	95	23.5	94	1	68-107/12
75-25-2	Bromoform			25	20.9	84	21.2	85	1	64-103/14
108-90-7	Chlorobenzene			25	23.4	94	22.9	92	2	74-111/11
75-00-3	Chloroethane			25	22.1	88	21.7	87	2	75-135/15
67-66-3	Chloroform			25	23.7	95	23.6	94	0	75-117/12
75-15-0	Carbon disulfide			25	21.3	85	20.7	83	3	57-126/13
56-23-5	Carbon tetrachloride			25	23.9	96	22.7	91	5	75-125/12
75-34-3	1,1-Dichloroethane			25	23.6	94	23.0	92	3	76-121/13
75-35-4	1,1-Dichloroethylene			25	24.5	98	22.9	92	7	71-128/19
107-06-2	1,2-Dichloroethane			25	24.7	99	24.6	98	0	70-111/14
78-87-5	1,2-Dichloropropane			25	24.2	97	24.0	96	1	71-113/12
124-48-1	Dibromochloromethane			25	21.6	86	21.5	86	0	69-104/12
156-59-2	cis-1,2-Dichloroethylene			25	25.5	102	24.6	98	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene			25	23.0	92	22.6	90	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene			25	23.6	94	23.3	93	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene			25	24.0	96	24.0	96	0	75-111/12
100-41-4	Ethylbenzene			25	23.7	95	23.2	93	2	75-112/12
591-78-6	2-Hexanone			125	125	100	123	98	2	60-113/18
108-10-1	4-Methyl-2-pentanone			125	128	102	125	100	2	63-115/21
74-83-9	Methyl bromide			25	21.7	87	21.6	86	0	59-132/15
74-87-3	Methyl chloride			25	20.4	82	20.2	81	1	56-150/17
75-09-2	Methylene chloride			25	21.0	84	21.0	84	0	70-113/13
78-93-3	Methyl ethyl ketone			125	127	102	126	101	1	62-117/21
100-42-5	Styrene			25	22.6	90	22.3	89	1	66-100/11
71-55-6	1,1,1-Trichloroethane			25	25.1	100	23.4	94	7	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane			25	26.8	107	25.9	104	3	67-110/20
79-00-5	1,1,2-Trichloroethane			25	24.7	99	24.1	96	2	69-107/14
127-18-4	Tetrachloroethylene			25	24.3	97	23.4	94	4	77-120/13
108-88-3	Toluene			25	23.1	92	22.5	90	3	77-114/12
79-01-6	Trichloroethylene			25	24.3	97	23.7	95	3	74-117/12
75-01-4	Vinyl chloride			25	22.2	89	21.7	87	2	64-121/19
1330-20-7	Xylene (total)			75	70.8	94	69.4	93	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50155-4MS	X0060097.D	1	04/10/10	JL	n/a	n/a	VX494
T50155-4MSD	X0060098.D	1	04/10/10	JL	n/a	n/a	VX494

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-1, T50078-2

CAS No.	Surrogate Recoveries	MS	MSD	Limits
1868-53-7	Dibromofluoromethane	97%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	75-121%
2037-26-5	Toluene-D8	94%	93%	87-119%
460-00-4	4-Bromofluorobenzene	93%	92%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50250-9MS	X0060129.D	10	04/11/10	JL	n/a	n/a	VX495
T50250-9MSD	X0060130.D	10	04/11/10	JL	n/a	n/a	VX495
T50250-9	X0060128.D	10	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Compound	T50250-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1070	86	1110	89	4	62-124/21
71-43-2	Benzene	ND		250	240	96	233	93	3	76-118/16
75-27-4	Bromodichloromethane	ND		250	239	96	241	96	1	68-107/12
75-25-2	Bromoform	ND		250	204	82	200	80	2	64-103/14
108-90-7	Chlorobenzene	ND		250	233	93	230	92	1	74-111/11
75-00-3	Chloroethane	ND		250	236	94	221	88	7	75-135/15
67-66-3	Chloroform	33.2		250	278	98	273	96	2	75-117/12
75-15-0	Carbon disulfide	ND		250	242	97	234	94	3	57-126/13
56-23-5	Carbon tetrachloride	52.5		250	284	93	268	86	6	75-125/12
75-34-3	1,1-Dichloroethane	ND		250	244	98	236	94	3	76-121/13
75-35-4	1,1-Dichloroethylene	ND		250	256	102	244	98	5	71-128/19
107-06-2	1,2-Dichloroethane	61.4		250	304	97	297	94	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		250	250	100	246	98	2	71-113/12
124-48-1	Dibromochloromethane	ND		250	214	86	210	84	2	69-104/12
156-59-2	cis-1,2-Dichloroethylene	94.6		250	343	99	339	98	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		250	226	90	227	91	0	71-111/12
156-60-5	trans-1,2-Dichloroethylene	21.7		250	265	97	260	95	2	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		250	231	92	230	92	0	75-111/12
100-41-4	Ethylbenzene	ND		250	242	97	233	93	4	75-112/12
591-78-6	2-Hexanone	ND		1250	1080	86	1100	88	2	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		1250	1130	90	1140	91	1	63-115/21
74-83-9	Methyl bromide	ND		250	240	96	227	91	6	59-132/15
74-87-3	Methyl chloride	ND		250	233	93	216	86	8	56-150/17
75-09-2	Methylene chloride	ND		250	218	87	218	87	0	70-113/13
78-93-3	Methyl ethyl ketone	ND		1250	1130	90	1140	91	1	62-117/21
100-42-5	Styrene	ND		250	224	90	220	88	2	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		250	247	99	238	95	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1300		250	1420	48* [a]	1420	48* [a]	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		250	244	98	242	97	1	69-107/14
127-18-4	Tetrachloroethylene	496		250	737	96	716	88	3	77-120/13
108-88-3	Toluene	ND		250	240	96	232	93	3	77-114/12
79-01-6	Trichloroethylene	1180		250	1410	92	1370	76	3	74-117/12
75-01-4	Vinyl chloride	ND		250	248	99	228	91	8	64-121/19
1330-20-7	Xylene (total)	ND		750	719	96	693	92	4	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T50078
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50250-9MS	X0060129.D	10	04/11/10	JL	n/a	n/a	VX495
T50250-9MSD	X0060130.D	10	04/11/10	JL	n/a	n/a	VX495
T50250-9	X0060128.D	10	04/11/10	JL	n/a	n/a	VX495

The QC reported here applies to the following samples: **Method:** SW846 8260B

T50078-2, T50078-3, T50078-4

CAS No.	Surrogate Recoveries	MS	MSD	T50250-9	Limits
1868-53-7	Dibromofluoromethane	97%	97%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	102%	75-121%
2037-26-5	Toluene-D8	95%	95%	94%	87-119%
460-00-4	4-Bromofluorobenzene	92%	91%	92%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T50078
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11465
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/02/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9		
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7	-0.30	<3.0
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130		
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1	-0.18	<20

Associated samples MP11465: T50078-1, T50078-2, T50078-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T50078
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11465 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/10 04/02/10

Metal	T50067-1 Original	DUP	RPD	QC Limits	T50067-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	396	400	99.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	4.5	3.4	27.8 (a)	0-20	4.5	427	400	105.6	80-120

Associated samples MP11465: T50078-1, T50078-2, T50078-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T50078
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11465 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/10

Metal	T50067-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	0.0	401	400	100.3	1.3	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	4.5	435	400	107.6	1.9	20

Associated samples MP11465: T50078-1, T50078-2, T50078-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T50078
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11465
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/02/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	415	400	103.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	435	400	108.8	80-120

Associated samples MP11465: T50078-1, T50078-2, T50078-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T50078
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP11465
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/02/10

Metal	T50067-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	4.48	25.8	474.8(a)	0-10

Associated samples MP11465: T50078-1, T50078-2, T50078-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/02/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T46498

Sampling Date: 01/27/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Accutest LabLink@42366 13:04 02-Apr-2010

Sample Summary

United Technology Corporation

Job No: T46498

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T46498-1	01/27/10	12:20		01/28/10	AQ	Ground Water	MW62
T46498-2	01/27/10	11:40		01/28/10	AQ	Ground Water	MW60

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T46498
Site:	XDD/UT Collierville/031091	**Report Date**	2/9/2010 4:56:56 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 01/27/2010 and were received at Accutest on 01/28/2010 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T46498. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX437

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T46498-1MS, T46498-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Carbon disulfide are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Carbon disulfide are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T46498-1	**Date Sampled:**	01/27/10
Matrix:	AQ - Ground Water	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058863.D	1	02/06/10	JL	n/a	n/a	VX437
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T46498-1	**Date Sampled:**	01/27/10
Matrix:	AQ - Ground Water	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-122%
17060-07-0	1,2-Dichloroethane-D4	109%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	99%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T46498-2	**Date Sampled:**	01/27/10
Matrix:	AQ - Ground Water	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058866.D	1	02/06/10	JL	n/a	n/a	VX437
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T46498-2	**Date Sampled:**	01/27/10
Matrix:	AQ - Ground Water	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	101%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T46498

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. Cleve-Mass Rd
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: mallen@SASENVIRONMENTAL.com
Phone #: 330 666 1546
Sampler's Name: FRANK O'CONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2SO4	MEOH	DI/CORE	VOC 8260	LAB USE ONLY
1	MW 62		1-27-10	1220	JFO	GW	3	3								X	
2	MW 60		1-27-10	1140	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

log in UNDER UTC / STANDARD TAT
EMAIL RESULTS to JFO12@AOL.COM
Bill to: XDD LLC
22 MARIN WAY UNIT 3
STRATHAM, NH 03885 603-778-8100

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 Frank O'Connell Jr	1/27/10/1550	1 FED EX	2	1-27-10/1550	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4 FED EX	Date Time: 1-28-10 9:00	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

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T46498: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T46498 Client: SAS Environmental Date/Time Received: 1-28-10 915

# of Coolers Received: 1 Thermometer #: DR-1 Temperature Adjustment Factor: +.4°C

Cooler Temps: #1: 1.4°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 1-28-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 1/28/10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

T46498: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T46498 DATE/TIME RECEIVED: 1-28-10 9:15

CLIENT: SAS Environmental INITIALS: EC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW 62	1-27-10 1220	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW 60	" 1140	"	"	"	"	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

GCF 2-3-10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T46498: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX437-MB	X0058862.D	1	02/06/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX437-MB	X0058862.D	1	02/06/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	106%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

Blank Spike Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX437-BS	X0058860.D	1	02/05/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	121	97	62-124
71-43-2	Benzene	25	24.4	98	76-118
75-27-4	Bromodichloromethane	25	22.3	89	68-107
75-25-2	Bromoform	25	20.6	82	64-103
108-90-7	Chlorobenzene	25	22.6	90	74-111
75-00-3	Chloroethane	25	24.3	97	75-135
67-66-3	Chloroform	25	24.0	96	75-117
75-15-0	Carbon disulfide	25	14.2	57	57-126
56-23-5	Carbon tetrachloride	25	25.5	102	75-125
75-34-3	1,1-Dichloroethane	25	23.4	94	76-121
75-35-4	1,1-Dichloroethylene	25	24.2	97	71-128
107-06-2	1,2-Dichloroethane	25	23.7	95	70-111
78-87-5	1,2-Dichloropropane	25	23.6	94	71-113
124-48-1	Dibromochloromethane	25	21.4	86	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.8	99	68-113
10061-01-5	cis-1,3-Dichloropropene	25	20.7	83	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.1	88	75-111
100-41-4	Ethylbenzene	25	23.7	95	75-112
591-78-6	2-Hexanone	125	109	87	60-113
108-10-1	4-Methyl-2-pentanone	125	116	93	63-115
74-83-9	Methyl bromide	25	25.2	101	59-132
74-87-3	Methyl chloride	25	24.5	98	56-150
75-09-2	Methylene chloride	25	23.1	92	70-113
78-93-3	Methyl ethyl ketone	125	108	86	62-117
100-42-5	Styrene	25	19.8	79	66-100
71-55-6	1,1,1-Trichloroethane	25	24.9	100	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.4	94	67-110
79-00-5	1,1,2-Trichloroethane	25	22.1	88	69-107
127-18-4	Tetrachloroethylene	25	22.3	89	77-120
108-88-3	Toluene	25	21.4	86	77-114
79-01-6	Trichloroethylene	25	23.5	94	74-117
75-01-4	Vinyl chloride	25	27.7	111	64-121
1330-20-7	Xylene (total)	75	63.7	85	75-111

Blank Spike Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX437-BS	X0058860.D	1	02/05/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	101%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46498-1MS	X0058864.D	1	02/06/10	JL	n/a	n/a	VX437
T46498-1MSD	X0058865.D	1	02/06/10	JL	n/a	n/a	VX437
T46498-1	X0058863.D	1	02/06/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Compound	T46498-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	132	106	126	101	5	62-124/21
71-43-2	Benzene	ND		25	24.7	99	23.7	95	4	76-118/16
75-27-4	Bromodichloromethane	ND		25	23.0	92	22.1	88	4	68-107/12
75-25-2	Bromoform	ND		25	20.8	83	20.8	83	0	64-103/14
108-90-7	Chlorobenzene	ND		25	22.2	89	21.7	87	2	74-111/11
75-00-3	Chloroethane	ND		25	24.9	100	24.0	96	4	75-135/15
67-66-3	Chloroform	ND		25	24.8	99	23.5	94	5	75-117/12
75-15-0	Carbon disulfide	ND		25	13.7	55*	13.4	54*	2	57-126/13
56-23-5	Carbon tetrachloride	ND		25	25.4	102	24.1	96	5	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	23.8	95	22.6	90	5	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	23.0	92	22.4	90	3	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	24.8	99	23.4	94	6	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	24.1	96	23.5	94	3	71-113/12
124-48-1	Dibromochloromethane	ND		25	21.7	87	21.6	86	0	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.3	97	24.0	96	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	19.3	77	19.5	78	1	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.9	92	22.5	90	2	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	22.0	88	22.3	89	1	75-111/12
100-41-4	Ethylbenzene	ND		25	23.0	92	22.9	92	0	75-112/12
591-78-6	2-Hexanone	ND		125	111	89	113	90	2	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	120	96	119	95	1	63-115/21
74-83-9	Methyl bromide	ND		25	26.6	106	24.9	100	7	59-132/15
74-87-3	Methyl chloride	ND		25	24.9	100	24.1	96	3	56-150/17
75-09-2	Methylene chloride	ND		25	23.4	94	22.7	91	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	110	88	110	88	0	62-117/21
100-42-5	Styrene	ND		25	18.8	75	18.7	75	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	24.8	99	23.7	95	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.0	96	23.6	94	2	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	23.0	92	22.7	91	1	69-107/14
127-18-4	Tetrachloroethylene	ND		25	20.9	84	20.6	82	1	77-120/13
108-88-3	Toluene	ND		25	21.0	84	20.7	83	1	77-114/12
79-01-6	Trichloroethylene	ND		25	22.5	90	22.0	88	2	74-117/12
75-01-4	Vinyl chloride	ND		25	27.7	111	27.2	109	2	64-121/19
1330-20-7	Xylene (total)	ND		75	61.7	82	61.1	81	1	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46498
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46498-1MS	X0058864.D	1	02/06/10	JL	n/a	n/a	VX437
T46498-1MSD	X0058865.D	1	02/06/10	JL	n/a	n/a	VX437
T46498-1	X0058863.D	1	02/06/10	JL	n/a	n/a	VX437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46498-1, T46498-2

CAS No.	Surrogate Recoveries	MS	MSD	T46498-1	Limits
1868-53-7	Dibromofluoromethane	103%	101%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	104%	109%	75-121%
2037-26-5	Toluene-D8	108%	109%	106%	87-119%
460-00-4	4-Bromofluorobenzene	99%	100%	99%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/02/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T46501

Sampling Date: 01/27/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@42366 13:06 02-Apr-2010

Sample Summary

United Technology Corporation

Job No: T46501

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T46501-1	01/27/10	12:55	JO	01/28/10	AQ	Effluent	WP2EFF
T46501-2	01/27/10	13:00	JO	01/28/10	AQ	Influent	WP2INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T46501
Site:	XDD/UT Collierville/031091	**Report Date**	2/9/2010 4:56:13 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 01/27/2010 and were received at Accutest on 01/28/2010 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T46501. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VC304

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T46501-1MS, T46501-1MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for Carbon disulfide are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2EFF		
Lab Sample ID:	T46501-1	**Date Sampled:**	01/27/10
Matrix:	AQ - Effluent	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006543.D	1	02/06/10	AP	n/a	n/a	VC304
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2EFF		
Lab Sample ID:	T46501-1	**Date Sampled:**	01/27/10
Matrix:	AQ - Effluent	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	90%		75-121%
2037-26-5	Toluene-D8	96%		87-119%
460-00-4	4-Bromofluorobenzene	83%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2INF		
Lab Sample ID:	T46501-2	**Date Sampled:**	01/27/10
Matrix:	AQ - Influent	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006546.D	1	02/06/10	AP	n/a	n/a	VC304
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	25.0	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2INF		
Lab Sample ID:	T46501-2	**Date Sampled:**	01/27/10
Matrix:	AQ - Influent	**Date Received:**	01/28/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	89%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

STANDARD TAT

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T46501

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Address: 1270 S. CLEVE MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: J FRANK O'CONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2S2O3	MEOH	ENCORE	VOC 8260	LAB USE ONLY
1	WP2 EFF		1-27-10	1255	JFO	GW	3	3								X	
2	WP2 INF		1-27-10	1300	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- ☑ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC / STANDARD TAT
EMAIL RESULTS TO JFO121@AOL.COM
Bill to: XDD-LLC
22 MARIN WAY UNIT 3
STRATHAM NH 03885 603-778-1100

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 J Frank O'Connell	1-27-10/1550	1 FED EX	2	1-29-10/1550	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4 FedEx	Date Time: 1-29-10	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 4°C

4.1
4

T46501: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T46501 Client: SAS Environmental Date/Time Received: 1-28-10 915

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +.4°C

Cooler Temps: #1: 1.4°C #2: ____ #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: ____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 1-28-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 1/28/10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalkedform\samplemanagement

T46501: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T46501 DATE/TIME RECEIVED: 1.28.10 915

CLIENT: SAS Environmental INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 Eff	1.27.10 1355	W	40ml	1.3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	WP2 Inf	" 1300	"	"	"	"	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

SC 1.28.10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T46501: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC304-MB	C0006542.D	1	02/06/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC304-MB	C0006542.D	1	02/06/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	86%	80-133%

Blank Spike Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC304-BS	C0006540.D	1	02/05/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	113	90	62-124
71-43-2	Benzene	25	22.9	92	76-118
75-27-4	Bromodichloromethane	25	20.8	83	68-107
75-25-2	Bromoform	25	21.0	84	64-103
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	26.8	107	75-135
67-66-3	Chloroform	25	23.7	95	75-117
75-15-0	Carbon disulfide	25	14.7	59	57-126
56-23-5	Carbon tetrachloride	25	24.8	99	75-125
75-34-3	1,1-Dichloroethane	25	23.4	94	76-121
75-35-4	1,1-Dichloroethylene	25	22.1	88	71-128
107-06-2	1,2-Dichloroethane	25	23.2	93	70-111
78-87-5	1,2-Dichloropropane	25	22.4	90	71-113
124-48-1	Dibromochloromethane	25	22.3	89	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	21.0	84	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.4	98	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.0	88	75-111
100-41-4	Ethylbenzene	25	24.6	98	75-112
591-78-6	2-Hexanone	125	104	83	60-113
108-10-1	4-Methyl-2-pentanone	125	108	86	63-115
74-83-9	Methyl bromide	25	26.6	106	59-132
74-87-3	Methyl chloride	25	29.3	117	56-150
75-09-2	Methylene chloride	25	21.7	87	70-113
78-93-3	Methyl ethyl ketone	125	118	94	62-117
100-42-5	Styrene	25	21.3	85	66-100
71-55-6	1,1,1-Trichloroethane	25	25.3	101	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	20.9	84	67-110
79-00-5	1,1,2-Trichloroethane	25	21.6	86	69-107
127-18-4	Tetrachloroethylene	25	26.2	105	77-120
108-88-3	Toluene	25	22.7	91	77-114
79-01-6	Trichloroethylene	25	25.6	102	74-117
75-01-4	Vinyl chloride	25	29.1	116	64-121
1330-20-7	Xylene (total)	75	65.5	87	75-111

Blank Spike Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC304-BS	C0006540.D	1	02/05/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46501-1MS	C0006544.D	1	02/06/10	AP	n/a	n/a	VC304
T46501-1MSD	C0006545.D	1	02/06/10	AP	n/a	n/a	VC304
T46501-1	C0006543.D	1	02/06/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Compound	T46501-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	121	97	110	88	10	62-124/21
71-43-2	Benzene	ND		25	23.8	95	23.0	92	3	76-118/16
75-27-4	Bromodichloromethane	ND		25	21.5	86	21.0	84	2	68-107/12
75-25-2	Bromoform	ND		25	21.1	84	21.5	86	2	64-103/14
108-90-7	Chlorobenzene	ND		25	23.8	95	23.7	95	0	74-111/11
75-00-3	Chloroethane	ND		25	27.9	112	26.0	104	7	75-135/15
67-66-3	Chloroform	ND		25	25.2	101	24.2	97	4	75-117/12
75-15-0	Carbon disulfide	ND		25	15.1	60	13.8	55*	9	57-126/13
56-23-5	Carbon tetrachloride	ND		25	26.0	104	24.0	96	8	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	24.2	97	23.1	92	5	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	22.3	89	20.8	83	7	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	24.2	97	23.8	95	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	23.2	93	22.6	90	3	71-113/12
124-48-1	Dibromochloromethane	ND		25	23.5	94	22.8	91	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.0	100	23.9	96	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	20.6	82	20.1	80	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.9	100	24.5	98	2	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	22.4	90	22.5	90	0	75-111/12
100-41-4	Ethylbenzene	ND		25	24.7	99	24.3	97	2	75-112/12
591-78-6	2-Hexanone	ND		125	107	86	106	85	1	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	111	89	109	87	2	63-115/21
74-83-9	Methyl bromide	ND		25	27.2	109	26.8	107	1	59-132/15
74-87-3	Methyl chloride	ND		25	28.0	112	28.2	113	1	56-150/17
75-09-2	Methylene chloride	ND		25	23.3	93	21.7	87	7	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	116	93	116	93	0	62-117/21
100-42-5	Styrene	ND		25	21.2	85	21.0	84	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	26.6	106	24.5	98	8	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.1	84	21.3	85	1	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	21.1	84	21.3	85	1	69-107/14
127-18-4	Tetrachloroethylene	ND		25	25.2	101	23.9	96	5	77-120/13
108-88-3	Toluene	ND		25	22.9	92	22.4	90	2	77-114/12
79-01-6	Trichloroethylene	ND		25	25.5	102	24.6	98	4	74-117/12
75-01-4	Vinyl chloride	ND		25	27.7	111	27.0	108	3	64-121/19
1330-20-7	Xylene (total)	ND		75	67.2	90	65.7	88	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46501
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46501-1MS	C0006544.D	1	02/06/10	AP	n/a	n/a	VC304
T46501-1MSD	C0006545.D	1	02/06/10	AP	n/a	n/a	VC304
T46501-1	C0006543.D	1	02/06/10	AP	n/a	n/a	VC304

The QC reported here applies to the following samples: **Method:** SW846 8260B

T46501-1, T46501-2

CAS No.	Surrogate Recoveries	MS	MSD	T46501-1	Limits
1868-53-7	Dibromofluoromethane	89%	87%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	87%	90%	75-121%
2037-26-5	Toluene-D8	97%	97%	96%	87-119%
460-00-4	4-Bromofluorobenzene	84%	88%	83%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/02/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T47878

Sampling Date: 02/18/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Accutest LabLink@42367 14:39 02-Apr-2010

Sample Summary

United Technology Corporation

Job No: T47878

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T47878-1	02/18/10	13:15		02/19/10	AQ	Effluent	WP2 EFF
T47878-2	02/18/10	13:20		02/19/10	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T47878
Site:	XDD/UT Collierville/031091	**Report Date**	2/22/2010 3:47:08 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 02/18/2010 and were received at Accutest on 02/19/2010 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of T47878. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VC319

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T47841-10MS, T47841-10MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Dibromochloromethane, Ethylbenzene, Tetrachloroethylene, Trichloroethylene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Trichloroethylene are outside control limits. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VC320

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T47909-1MS, T47909-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Tetrachloroethylene are outside control limits.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, cis-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2-Hexanone are outside control limits for sample T47909-1MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T47878-1	**Date Sampled:**	02/18/10
Matrix:	AQ - Effluent	**Date Received:**	02/19/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006928.D	1	02/20/10	AP	n/a	n/a	VC319
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T47878-1	**Date Sampled:**	02/18/10
Matrix:	AQ - Effluent	**Date Received:**	02/19/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	89%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	81%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T47878-2	**Date Sampled:**	02/18/10
Matrix:	AQ - Influent	**Date Received:**	02/19/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006940.D	1	02/21/10	AP	n/a	n/a	VC320
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T47878-2	**Date Sampled:**	02/18/10
Matrix:	AQ - Influent	**Date Received:**	02/19/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		79-122%
17060-07-0	1,2-Dichloroethane-D4	84%		75-121%
2037-26-5	Toluene-D8	92%		87-119%
460-00-4	4-Bromofluorobenzene	84%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T47878

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. Cleve-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: JEANNE O'CONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	MeOH	HNO3	H2SO4	NaOH	NaHSO4	MeOH	EnCore	VOC 8260	LAB USE ONLY
	WP2 EFF		2-18-10	1315	JFO	GW	3	3								X	
	WP2 INF		2-18-10	1320	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC / STANDARD TAT
EMAIL RESULTS TO JFO121@AOL.COM
BILL TO XOD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	2-18-10/1515	1 FEDEX	2 Fed Ex	2-18-10/1515	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time: 0115 2/19/10	Received by: 4 [signature]
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 3.0

4.1 4

T47878: Chain of Custody
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SAMPLE INSPECTION FORM

Accutest Job Number: T47878 Client: SAS Environmental Date/Time Received: 2/19/10 09:15

# of Coolers Received: 1 Thermometer #: IR1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 3.0 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8689 3281 9763

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: T Clark 2/19/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 2-19-10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

T47878: Chain of Custody
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SAMPLE RECEIPT LOG

JOB #: T47878 DATE/TIME RECEIVED: 2/19/10 09:15

CLIENT: SAS Environmental INITIALS: TC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 EFF	2/18/10 13:15	Water	40mL	1-3	VR	1 2 3 4 5 6 7 8	<2	>12
↓	2	WP2 INF	2/18/10 13:20	↓	↓	↓	↓	1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

TC 2/19/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T47878: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC319-MB	C0006909.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC319-MB	C0006909.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	85%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Method Blank Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC320-MB	C0006935.D	1	02/21/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC320-MB	C0006935.D	1	02/21/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	75-121%
2037-26-5	Toluene-D8	91%	87-119%
460-00-4	4-Bromofluorobenzene	82%	80-133%

Blank Spike Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC319-BS	C0006907.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	131	105	62-124
71-43-2	Benzene	25	25.5	102	76-118
75-27-4	Bromodichloromethane	25	23.4	94	68-107
75-25-2	Bromoform	25	22.7	91	64-103
108-90-7	Chlorobenzene	25	26.1	104	74-111
75-00-3	Chloroethane	25	23.2	93	75-135
67-66-3	Chloroform	25	26.6	106	75-117
75-15-0	Carbon disulfide	25	26.2	105	57-126
56-23-5	Carbon tetrachloride	25	29.4	118	75-125
75-34-3	1,1-Dichloroethane	25	25.7	103	76-121
75-35-4	1,1-Dichloroethylene	25	25.1	100	71-128
107-06-2	1,2-Dichloroethane	25	26.0	104	70-111
78-87-5	1,2-Dichloropropane	25	25.2	101	71-113
124-48-1	Dibromochloromethane	25	25.1	100	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.8	107	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.8	95	71-111
156-60-5	trans-1,2-Dichloroethylene	25	27.3	109	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.4	102	75-111
100-41-4	Ethylbenzene	25	28.1	112	75-112
591-78-6	2-Hexanone	125	121	97	60-113
108-10-1	4-Methyl-2-pentanone	125	126	101	63-115
74-83-9	Methyl bromide	25	22.0	88	59-132
74-87-3	Methyl chloride	25	25.6	102	56-150
75-09-2	Methylene chloride	25	24.2	97	70-113
78-93-3	Methyl ethyl ketone	125	119	95	62-117
100-42-5	Styrene	25	23.4	94	66-100
71-55-6	1,1,1-Trichloroethane	25	29.9	120	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.9	92	67-110
79-00-5	1,1,2-Trichloroethane	25	22.6	90	69-107
127-18-4	Tetrachloroethylene	25	29.6	118	77-120
108-88-3	Toluene	25	25.5	102	77-114
79-01-6	Trichloroethylene	25	28.4	114	74-117
75-01-4	Vinyl chloride	25	24.8	99	64-121
1330-20-7	Xylene (total)	75	75.4	101	75-111

Blank Spike Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC319-BS	C0006907.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	84%	79-122%
17060-07-0	1,2-Dichloroethane-D4	85%	75-121%
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Blank Spike Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC320-BS	C0006933.D	1	02/20/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	109	87	62-124
71-43-2	Benzene	25	26.2	105	76-118
75-27-4	Bromodichloromethane	25	23.8	95	68-107
75-25-2	Bromoform	25	21.2	85	64-103
108-90-7	Chlorobenzene	25	27.0	108	74-111
75-00-3	Chloroethane	25	25.1	100	75-135
67-66-3	Chloroform	25	28.0	112	75-117
75-15-0	Carbon disulfide	25	26.1	104	57-126
56-23-5	Carbon tetrachloride	25	30.5	122	75-125
75-34-3	1,1-Dichloroethane	25	26.1	104	76-121
75-35-4	1,1-Dichloroethylene	25	25.7	103	71-128
107-06-2	1,2-Dichloroethane	25	26.4	106	70-111
78-87-5	1,2-Dichloropropane	25	25.1	100	71-113
124-48-1	Dibromochloromethane	25	25.0	100	69-104
156-59-2	cis-1,2-Dichloroethylene	25	27.7	111	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.1	92	71-111
156-60-5	trans-1,2-Dichloroethylene	25	27.9	112	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	75-111
100-41-4	Ethylbenzene	25	27.9	112	75-112
591-78-6	2-Hexanone	125	104	83	60-113
108-10-1	4-Methyl-2-pentanone	125	112	90	63-115
74-83-9	Methyl bromide	25	25.1	100	59-132
74-87-3	Methyl chloride	25	28.8	115	56-150
75-09-2	Methylene chloride	25	24.1	96	70-113
78-93-3	Methyl ethyl ketone	125	106	85	62-117
100-42-5	Styrene	25	24.0	96	66-100
71-55-6	1,1,1-Trichloroethane	25	30.8	123	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.3	85	67-110
79-00-5	1,1,2-Trichloroethane	25	22.5	90	69-107
127-18-4	Tetrachloroethylene	25	30.2	121* [a]	77-120
108-88-3	Toluene	25	26.2	105	77-114
79-01-6	Trichloroethylene	25	28.7	115	74-117
75-01-4	Vinyl chloride	25	27.8	111	64-121
1330-20-7	Xylene (total)	75	76.7	102	75-111

Blank Spike Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC320-BS	C0006933.D	1	02/20/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	85%	79-122%
17060-07-0	1,2-Dichloroethane-D4	83%	75-121%
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	101%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T47841-10MS	C0006911.D	1	02/20/10	AP	n/a	n/a	VC319
T47841-10MSD	C0006912.D	1	02/20/10	AP	n/a	n/a	VC319
T47841-10	C0006910.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Compound	T47841-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	109	87	118	94	8	62-124/21
71-43-2	Benzene	ND		25	26.5	106	25.1	100	5	76-118/16
75-27-4	Bromodichloromethane	ND		25	24.3	97	23.2	93	5	68-107/12
75-25-2	Bromoform	ND		25	22.3	89	23.3	93	4	64-103/14
108-90-7	Chlorobenzene	ND		25	26.6	106	26.4	106	1	74-111/11
75-00-3	Chloroethane	ND		25	26.5	106	24.2	97	9	75-135/15
67-66-3	Chloroform	ND		25	28.3	113	26.7	107	6	75-117/12
75-15-0	Carbon disulfide	ND		25	26.7	107	24.9	100	7	57-126/13
56-23-5	Carbon tetrachloride	ND		25	30.4	122	27.4	110	10	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	26.9	108	25.2	101	7	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.5	102	23.9	96	6	71-128/19
107-06-2	1,2-Dichloroethane	2.4		25	29.4	108	28.8	106	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.3	101	24.9	100	2	71-113/12
124-48-1	Dibromochloromethane	ND		25	26.2	105*	26.0	104	1	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	28.0	112	27.2	109	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.8	91	22.7	91	0	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.5	114	27.3	109	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.3	101	25.5	102	1	75-111/12
100-41-4	Ethylbenzene	ND		25	28.6	114*	27.2	109	5	75-112/12
591-78-6	2-Hexanone	ND		125	102	82	118	94	15	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	111	89	123	98	10	63-115/21
74-83-9	Methyl bromide	ND		25	23.3	93	23.2	93	0	59-132/15
74-87-3	Methyl chloride	ND		25	26.8	107	27.0	108	1	56-150/17
75-09-2	Methylene chloride	ND		25	24.7	99	23.9	96	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	108	86	112	90	4	62-117/21
100-42-5	Styrene	ND		25	23.8	95	23.5	94	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	30.9	124	28.4	114	8	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.6	86	23.3	93	8	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	21.9	88	23.4	94	7	69-107/14
127-18-4	Tetrachloroethylene	ND		25	31.1	124*	29.0	116	7	77-120/13
108-88-3	Toluene	ND		25	25.7	103	25.1	100	2	77-114/12
79-01-6	Trichloroethylene	ND		25	33.3	133*	30.6	122*	8	74-117/12
75-01-4	Vinyl chloride	ND		25	27.0	108	26.6	106	1	64-121/19
1330-20-7	Xylene (total)	ND		75	77.3	103	74.7	100	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T47841-10MS	C0006911.D	1	02/20/10	AP	n/a	n/a	VC319
T47841-10MSD	C0006912.D	1	02/20/10	AP	n/a	n/a	VC319
T47841-10	C0006910.D	1	02/20/10	AP	n/a	n/a	VC319

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-1

CAS No.	Surrogate Recoveries	MS	MSD	T47841-10	Limits
1868-53-7	Dibromofluoromethane	85%	84%	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	85%	85%	87%	75-121%
2037-26-5	Toluene-D8	95%	97%	91%	87-119%
460-00-4	4-Bromofluorobenzene	89%	90%	92%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T47909-1MS	C0006938.D	1	02/21/10	AP	n/a	n/a	VC320
T47909-1MSD	C0006939.D	1	02/21/10	AP	n/a	n/a	VC320
T47909-1	C0006937.D	1	02/21/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Compound	T47909-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	119	95	104	83	13	62-124/21
71-43-2	Benzene	ND		25	26.8	107	25.6	102	5	76-118/16
75-27-4	Bromodichloromethane	ND		25	24.1	96	23.2	93	4	68-107/12
75-25-2	Bromoform	ND		25	22.5	90	21.0	84	7	64-103/14
108-90-7	Chlorobenzene	ND		25	27.0	108	26.3	105	3	74-111/11
75-00-3	Chloroethane	ND		25	25.1	100	24.1	96	4	75-135/15
67-66-3	Chloroform	ND		25	28.6	114	27.8	111	3	75-117/12
75-15-0	Carbon disulfide	ND		25	26.1	104	24.7	99	6	57-126/13
56-23-5	Carbon tetrachloride	ND		25	31.0	124	28.2	113	9	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	27.2	109	25.8	103	5	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.7	103	23.7	95	8	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	27.8	111	26.1	104	6	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.6	102	24.2	97	6	71-113/12
124-48-1	Dibromochloromethane	ND		25	24.9	100	24.7	99	1	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	28.4	114*	27.9	112	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.0	88	21.5	86	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.0	112	27.1	108	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.9	96	23.4	94	2	75-111/12
100-41-4	Ethylbenzene	ND		25	27.9	112	27.5	110	1	75-112/12
591-78-6	2-Hexanone	ND		125	115	92	94.3	75	20*	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	125	100	103	82	19	63-115/21
74-83-9	Methyl bromide	ND		25	24.8	99	24.0	96	3	59-132/15
74-87-3	Methyl chloride	ND		25	26.1	104	27.4	110	5	56-150/17
75-09-2	Methylene chloride	ND		25	23.7	95	23.7	95	0	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	110	88	95.5	76	14	62-117/21
100-42-5	Styrene	ND		25	23.8	95	23.4	94	2	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	31.9	128*	29.5	118	8	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.2	89	20.0	80	10	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	22.8	91	22.2	89	3	69-107/14
127-18-4	Tetrachloroethylene	ND		25	30.2	121*	29.3	117	3	77-120/13
108-88-3	Toluene	ND		25	25.3	101	25.1	100	1	77-114/12
79-01-6	Trichloroethylene	ND		25	30.2	121*	28.8	115	5	74-117/12
75-01-4	Vinyl chloride	ND		25	26.1	104	25.9	104	1	64-121/19
1330-20-7	Xylene (total)	ND		75	75.4	101	73.7	98	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T47878
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T47909-1MS	C0006938.D	1	02/21/10	AP	n/a	n/a	VC320
T47909-1MSD	C0006939.D	1	02/21/10	AP	n/a	n/a	VC320
T47909-1	C0006937.D	1	02/21/10	AP	n/a	n/a	VC320

The QC reported here applies to the following samples: **Method:** SW846 8260B

T47878-2

CAS No.	Surrogate Recoveries	MS	MSD	T47909-1	Limits
1868-53-7	Dibromofluoromethane	86%	85%	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	83%	93%	75-121%
2037-26-5	Toluene-D8	90%	94%	92%	87-119%
460-00-4	4-Bromofluorobenzene	94%	83%	85%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/02/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T48418

Sampling Date: 02/27/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Accutest LabLink@42367 14:42 02-Apr-2010

Sample Summary

United Technology Corporation

Job No: T48418

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T48418-1	02/27/10	11:55	JO	03/02/10	AQ	Ground Water	MW62
T48418-2	02/27/10	11:20	JO	03/02/10	AQ	Ground Water	MW60

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T48418
Site:	XDD/UT Collierville/031091	**Report Date**	3/10/2010 3:41:42 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 02/27/2010 and were received at Accutest on 03/02/2010 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of T48418. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ2793

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T48731-4MS, T48731-4MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T48418-1	**Date Sampled:**	02/27/10
Matrix:	AQ - Ground Water	**Date Received:**	03/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z007132.D	1	03/08/10	RR	n/a	n/a	VZ2793
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T48418-1	**Date Sampled:**	02/27/10
Matrix:	AQ - Ground Water	**Date Received:**	03/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		79-122%
17060-07-0	1,2-Dichloroethane-D4	84%		75-121%
2037-26-5	Toluene-D8	97%		87-119%
460-00-4	4-Bromofluorobenzene	82%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T48418-2	**Date Sampled:**	02/27/10
Matrix:	AQ - Ground Water	**Date Received:**	03/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z007133.D	1	03/08/10	RR	n/a	n/a	VZ2793
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T48418-2	**Date Sampled:**	02/27/10
Matrix:	AQ - Ground Water	**Date Received:**	03/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-122%
17060-07-0	1,2-Dichloroethane-D4	85%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	83%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

STANDARD TAT

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T48418

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. Cleve-Mass RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK VAHLEN E-mail: mvahlen@SASENVIRONMENTAL.com
Phone #: 330 666 1546
Sampler's Name: JFRANK O'CONNER JR

Project Information

Project Name: UT Collierville
Street: 97 S. BYHALIA Rd
City: Collierville State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	HZSO4	NONE	NaHSO4	MEOH	ENCORE		LAB USE ONLY
	MW 62		2-27-10	1155	JFO	GW	3	3								X	
	MW60		2-27-10	1120	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- [x] 10 Day STANDARD — Approved By: / Date:
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT - SAMPLED 02-27-10
BILL TO XDD LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
	2-27-10/1250	1	2 FED EX	3-1-10/1340	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time: 3/1/10	Received by: 4 FClaunch
Relinquished by:	Date Time:	Received by:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.

T48418: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T48418 Client: SAS Environmental Date/Time Received: 3/2/10 0900

# of Coolers Received: 1 Thermometer #: IR1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 2.6 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8689 3281 9774

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [X] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: TClaunch 3/2/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 3.2.10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

T48418: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: _____ DATE/TIME RECEIVED: 3/2/10 09:00

CLIENT: SAS Environmental INITIALS: TC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
↓	1	MW 62	2/27/10 11:55	WAtER	40mL	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
↓	2	MW 60	2/27/10 11:20	↓	↓	1-3	↓	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			3/2/10					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
		TC						1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T48418: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2793-MB	Z007116.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2793-MB	Z007116.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	100%	80-133%

Blank Spike Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2793-BS	Z007114.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	109	87	62-124
71-43-2	Benzene	25	26.4	106	76-118
75-27-4	Bromodichloromethane	25	25.6	102	68-107
75-25-2	Bromoform	25	18.6	74	64-103
108-90-7	Chlorobenzene	25	23.5	94	74-111
75-00-3	Chloroethane	25	29.5	118	75-135
67-66-3	Chloroform	25	25.1	100	75-117
75-15-0	Carbon disulfide	25	26.5	106	57-126
56-23-5	Carbon tetrachloride	25	27.3	109	75-125
75-34-3	1,1-Dichloroethane	25	24.6	98	76-121
75-35-4	1,1-Dichloroethylene	25	27.0	108	71-128
107-06-2	1,2-Dichloroethane	25	24.0	96	70-111
78-87-5	1,2-Dichloropropane	25	25.4	102	71-113
124-48-1	Dibromochloromethane	25	22.1	88	69-104
156-59-2	cis-1,2-Dichloroethylene	25	25.4	102	68-113
10061-01-5	cis-1,3-Dichloropropene	25	21.8	87	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	70-125
10061-02-6	trans-1,3-Dichloropropene	25	20.5	82	75-111
100-41-4	Ethylbenzene	25	25.3	101	75-112
591-78-6	2-Hexanone	125	85.8	69	60-113
108-10-1	4-Methyl-2-pentanone	125	93.9	75	63-115
74-83-9	Methyl bromide	25	27.3	109	59-132
74-87-3	Methyl chloride	25	25.1	100	56-150
75-09-2	Methylene chloride	25	25.3	101	70-113
78-93-3	Methyl ethyl ketone	125	98.4	79	62-117
100-42-5	Styrene	25	22.8	91	66-100
71-55-6	1,1,1-Trichloroethane	25	27.4	110	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.8	79	67-110
79-00-5	1,1,2-Trichloroethane	25	22.3	89	69-107
127-18-4	Tetrachloroethylene	25	23.6	94	77-120
108-88-3	Toluene	25	25.2	101	77-114
79-01-6	Trichloroethylene	25	25.4	102	74-117
75-01-4	Vinyl chloride	25	30.3	121	64-121
1330-20-7	Xylene (total)	75	74.5	99	75-111

Blank Spike Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2793-BS	Z007114.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	103%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T48731-4MS	Z007127.D	1	03/08/10	RR	n/a	n/a	VZ2793
T48731-4MSD	Z007128.D	1	03/08/10	RR	n/a	n/a	VZ2793
T48731-4	Z007126.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Compound	T48731-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	18.1	J	125	96.2	62	95.4	62	1	62-124/21
71-43-2	Benzene	ND		25	26.2	105	25.3	101	3	76-118/16
75-27-4	Bromodichloromethane	ND		25	24.7	99	24.3	97	2	68-107/12
75-25-2	Bromoform	ND		25	17.1	68	16.9	68	1	64-103/14
108-90-7	Chlorobenzene	ND		25	23.5	94	23.2	93	1	74-111/11
75-00-3	Chloroethane	ND		25	25.3	101	23.8	95	6	75-135/15
67-66-3	Chloroform	ND		25	25.4	102	24.8	99	2	75-117/12
75-15-0	Carbon disulfide	ND		25	25.8	103	24.2	97	6	57-126/13
56-23-5	Carbon tetrachloride	ND		25	26.4	106	25.0	100	5	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.2	101	24.5	98	3	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	26.2	105	24.5	98	7	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	23.4	94	22.2	89	5	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.6	102	25.8	103	1	71-113/12
124-48-1	Dibromochloromethane	ND		25	22.1	88	21.7	87	2	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.5	106	26.5	106	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.1	92	22.9	92	1	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.3	101	25.8	103	2	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	22.1	88	22.1	88	0	75-111/12
100-41-4	Ethylbenzene	ND		25	25.2	101	24.4	98	3	75-112/12
591-78-6	2-Hexanone	ND		125	90.9	73	84.6	68	7	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	94.2	75	94.8	76	1	63-115/21
74-83-9	Methyl bromide	ND		25	25.2	101	23.2	93	8	59-132/15
74-87-3	Methyl chloride	ND		25	22.4	90	21.3	85	5	56-150/17
75-09-2	Methylene chloride	ND		25	24.9	100	24.1	96	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	83.5	67	83.6	67	0	62-117/21
100-42-5	Styrene	ND		25	21.9	88	21.9	88	0	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	27.4	110	26.1	104	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.5	86	21.3	85	1	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	22.0	88	21.4	86	3	69-107/14
127-18-4	Tetrachloroethylene	ND		25	23.6	94	23.3	93	1	77-120/13
108-88-3	Toluene	ND		25	25.9	104	25.4	102	2	77-114/12
79-01-6	Trichloroethylene	ND		25	25.1	100	24.8	99	1	74-117/12
75-01-4	Vinyl chloride	ND		25	26.6	106	24.4	98	9	64-121/19
1330-20-7	Xylene (total)	ND		75	74.3	99	73.4	98	1	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T48418
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T48731-4MS	Z007127.D	1	03/08/10	RR	n/a	n/a	VZ2793
T48731-4MSD	Z007128.D	1	03/08/10	RR	n/a	n/a	VZ2793
T48731-4	Z007126.D	1	03/08/10	RR	n/a	n/a	VZ2793

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48418-1, T48418-2

CAS No.	Surrogate Recoveries	MS	MSD	T48731-4	Limits
1868-53-7	Dibromofluoromethane	89%	90%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	83%	82%	89%	75-121%
2037-26-5	Toluene-D8	95%	98%	102%	87-119%
460-00-4	4-Bromofluorobenzene	94%	97%	95%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/02/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T48577

Sampling Date: 03/02/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

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Accutest LabLink@42367 14:44 02-Apr-2010

Sample Summary

United Technology Corporation

Job No: T48577

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T48577-1	03/02/10	11:20	JO	03/03/10	AQ	Effluent	WP2 EFF
T48577-2	03/02/10	11:28	JO	03/03/10	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T48577
Site:	XDD/UT Collierville/031091	**Report Date**	3/10/2010 3:36:19 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 03/02/2010 and were received at Accutest on 03/03/2010 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of T48577. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX468

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T48577-2MS, T48577-2MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T48577-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Effluent	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0059521.D	1	03/08/10	RR	n/a	n/a	VX468
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T48577-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Effluent	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	105%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T48577-2	**Date Sampled:**	03/02/10
Matrix:	AQ - Influent	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0059517.D	1	03/08/10	RR	n/a	n/a	VX468
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	23.9	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T48577-2	**Date Sampled:**	03/02/10
Matrix:	AQ - Influent	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	104%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T48577

Client / Reporting Information

Company Name	SASENVIRONMENTAL INC
Address	1270 S. Cleve-Mass Rd
City / State / Zip	Akron OH 44321
Project Contact / E-mail	Mark V. Allen mallen@sasenvironmental.com
Phone #	330 666 1546
Sampler's Name	J Frank O'Connell Jr

Project Information

Project Name	UT Collierville
Street	97 S. Byhalia Rd
City / State	Collierville TN
Project #	031091
Fax #	330 666 7443
Client Purchase Order #	

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE		LAB USE ONLY
	WP2 EFF		3-2-10	1120	JFO	GW	3	3								X	
	WP2 INF		3-2-10	1128	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- ☒ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

Log in under UTC
Standard TAT
Email results to JFO121@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	3-2-10/1415	1 FED EX	2	3-2-10/1415	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time: 3/3/10 9:15	Received by: 4 TClaunch
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐ On Ice ☒	Cooler Temp 0.8

4.1

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T48577: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T48577 Client: SAS Environmental INC Date/Time Received: 3/3/10 9:15

# of Coolers Received: 1 Thermometer #: IR1 Temperature Adjustment Factor: +0.7

Cooler Temps: #1: 0.8 #2: ____ #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: ____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [X] Analyses unclear or missing
- [X] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____
Number of 5035 kits? ____
Number of lab-filtered metals? ____

Summary of Discrepancies:

NO ANALYSES ON C.O.C.

TECHNICIAN SIGNATURE/DATE: T Claunch 3/3/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 3/3/10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

4.1

4

SAMPLE RECEIPT LOG

JOB #: T48577 DATE/TIME RECEIVED: 3/3/10 9:15

CLIENT: SAS Environmental INITIALS: TC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	WP2 EFF	3/2/10 11:20	Water	40ml	1-3	VR	1 2 3 4 5 6 7 8	<2 >12
↓	2	WP2 INF	3/2/10 11:28	↓	↓	↓	↓	1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

TC 3/3/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T48577: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX468-MB	X0059510.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX468-MB	X0059510.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Blank Spike Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX468-BS	X0059508.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	102	82	62-124
71-43-2	Benzene	25	24.4	98	76-118
75-27-4	Bromodichloromethane	25	24.4	98	68-107
75-25-2	Bromoform	25	20.0	80	64-103
108-90-7	Chlorobenzene	25	24.1	96	74-111
75-00-3	Chloroethane	25	24.7	99	75-135
67-66-3	Chloroform	25	23.6	94	75-117
75-15-0	Carbon disulfide	25	25.1	100	57-126
56-23-5	Carbon tetrachloride	25	25.2	101	75-125
75-34-3	1,1-Dichloroethane	25	24.4	98	76-121
75-35-4	1,1-Dichloroethylene	25	26.0	104	71-128
107-06-2	1,2-Dichloroethane	25	22.9	92	70-111
78-87-5	1,2-Dichloropropane	25	24.7	99	71-113
124-48-1	Dibromochloromethane	25	22.5	90	69-104
156-59-2	cis-1,2-Dichloroethylene	25	23.7	95	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.8	91	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.0	88	75-111
100-41-4	Ethylbenzene	25	24.6	98	75-112
591-78-6	2-Hexanone	125	108	86	60-113
108-10-1	4-Methyl-2-pentanone	125	111	89	63-115
74-83-9	Methyl bromide	25	23.2	93	59-132
74-87-3	Methyl chloride	25	23.8	95	56-150
75-09-2	Methylene chloride	25	23.3	93	70-113
78-93-3	Methyl ethyl ketone	125	127	102	62-117
100-42-5	Styrene	25	22.8	91	66-100
71-55-6	1,1,1-Trichloroethane	25	24.7	99	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	24.8	99	67-110
79-00-5	1,1,2-Trichloroethane	25	24.6	98	69-107
127-18-4	Tetrachloroethylene	25	24.9	100	77-120
108-88-3	Toluene	25	25.5	102	77-114
79-01-6	Trichloroethylene	25	25.9	104	74-117
75-01-4	Vinyl chloride	25	27.5	110	64-121
1330-20-7	Xylene (total)	75	70.0	93	75-111

Blank Spike Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX468-BS	X0059508.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	108%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T48577-2MS	X0059518.D	1	03/08/10	RR	n/a	n/a	VX468
T48577-2MSD	X0059519.D	1	03/08/10	RR	n/a	n/a	VX468
T48577-2	X0059517.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Compound	T48577-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	98.2	79	91.5	73	7	62-124/21
71-43-2	Benzene	ND		25	23.1	92	22.3	89	4	76-118/16
75-27-4	Bromodichloromethane	ND		25	22.8	91	22.4	90	2	68-107/12
75-25-2	Bromoform	ND		25	18.2	73	18.4	74	1	64-103/14
108-90-7	Chlorobenzene	ND		25	22.7	91	22.6	90	0	74-111/11
75-00-3	Chloroethane	ND		25	30.1	120	28.8	115	4	75-135/15
67-66-3	Chloroform	ND		25	23.8	95	23.2	93	3	75-117/12
75-15-0	Carbon disulfide	ND		25	24.6	98	23.9	96	3	57-126/13
56-23-5	Carbon tetrachloride	ND		25	24.1	96	23.1	92	4	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	24.2	97	22.8	91	6	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	31.4	126	26.9	108	15	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	22.8	91	22.3	89	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	23.1	92	22.6	90	2	71-113/12
124-48-1	Dibromochloromethane	ND		25	19.8	79	20.1	80	2	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.9	92	22.4	90	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	19.6	78	19.7	79	1	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.8	95	23.8	95	0	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	19.7	79	20.2	81	3	75-111/12
100-41-4	Ethylbenzene	ND		25	22.4	90	22.6	90	1	75-112/12
591-78-6	2-Hexanone	ND		125	86.3	69	84.5	68	2	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	94.9	76	93.2	75	2	63-115/21
74-83-9	Methyl bromide	ND		25	27.7	111	26.7	107	4	59-132/15
74-87-3	Methyl chloride	ND		25	26.6	106	26.6	106	0	56-150/17
75-09-2	Methylene chloride	ND		25	25.4	102	24.0	96	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	111	89	109	87	2	62-117/21
100-42-5	Styrene	ND		25	20.8	83	20.5	82	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.5	94	23.0	92	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.5	98	24.9	100	2	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	24.5	98	23.9	96	2	69-107/14
127-18-4	Tetrachloroethylene	ND		25	22.0	88	22.6	90	3	77-120/13
108-88-3	Toluene	ND		25	23.1	92	23.1	92	0	77-114/12
79-01-6	Trichloroethylene	23.9		25	48.7	99	48.5	98	0	74-117/12
75-01-4	Vinyl chloride	ND		25	28.2	113	29.0	116	3	64-121/19
1330-20-7	Xylene (total)	ND		75	65.1	87	64.5	86	1	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T48577
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T48577-2MS	X0059518.D	1	03/08/10	RR	n/a	n/a	VX468
T48577-2MSD	X0059519.D	1	03/08/10	RR	n/a	n/a	VX468
T48577-2	X0059517.D	1	03/08/10	RR	n/a	n/a	VX468

The QC reported here applies to the following samples: **Method:** SW846 8260B

T48577-1, T48577-2

CAS No.	Surrogate Recoveries	MS	MSD	T48577-2	Limits
1868-53-7	Dibromofluoromethane	105%	102%	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	100%	99%	75-121%
2037-26-5	Toluene-D8	108%	109%	107%	87-119%
460-00-4	4-Bromofluorobenzene	97%	99%	104%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T51075

Sampling Date: 04/16/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Accutest LabLink@43259 13:49 12-May-2010

Sample Summary

United Technology Corporation

Job No: T51075

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T51075-1	04/16/10	12:05	JF	04/17/10	AQ	Ground Water	MW60
T51075-2	04/16/10	12:40	JF	04/17/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T51075
Site:	XDD/UT Collierville/031091	**Report Date**	4/21/2010 1:21:07 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 04/16/2010 and were received at Accutest on 04/17/2010 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of T51075. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VM1023

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T50470-3MS, T50470-3MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1-Dichloroethane, Methylene chloride, Toluene, 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, Benzene, Methylene chloride, Toluene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T51075-1	**Date Sampled:**	04/16/10
Matrix:	AQ - Ground Water	**Date Received:**	04/17/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025319.D	1	04/19/10	JL	n/a	n/a	VM1023
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T51075-1	**Date Sampled:**	04/16/10
Matrix:	AQ - Ground Water	**Date Received:**	04/17/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	106%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T51075-2	**Date Sampled:**	04/16/10
Matrix:	AQ - Ground Water	**Date Received:**	04/17/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025320.D	1	04/19/10	JL	n/a	n/a	VM1023
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T51075-2	**Date Sampled:**	04/16/10
Matrix:	AQ - Ground Water	**Date Received:**	04/17/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-122%
17060-07-0	1,2-Dichloroethane-D4	120%		75-121%
2037-26-5	Toluene-D8	98%		87-119%
460-00-4	4-Bromofluorobenzene	102%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

RUSH 24 HR TAT

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T51075

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: FRANK CONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis

VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260	LAB USE ONLY
	MLW60		4-16-10	1205	JFO	GW	3	3								X	
	MLW62		4-16-10	1240	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- ☐ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☒ 1 Day EMERGENCY — Approved By: / Date: JFO 4-16-10
- ☐ Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
RUSH 24 HR TAT
email RESULTS to JFO121@aol.com
Bill to XOD-LLC ATTN Dave Cliff

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	4-16-10 / 1345	1 FED EX	2	4-16-10 / 1345	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4 Fed Ex	Date Time: 4/17/10 0972	Received by: 4 [signature]
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 1 2

4.1 4

T51075: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T51075 Client: EAS Date/Time Received: 4/17/10 0930

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4°C

Cooler Temps: #1: 2.3°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 4/17/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: _____

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

SAMPLE RECEIPT LOG

JOB #: T51075 DATE/TIME RECEIVED: 4/17/10 0930

CLIENT: GAS INITIALS: JS

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW60	4/16/10 1205	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
"	2	MW62	" 1240	"	"	1-3	"	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

JS 4/17/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T51075: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1023-MB	M0025300.D	1	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1023-MB	M0025300.D	1	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

Blank Spike Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1023-BS	M0025299.D	1	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	120	96	62-124
71-43-2	Benzene	25	19.4	78	76-118
75-27-4	Bromodichloromethane	25	23.0	92	68-107
75-25-2	Bromoform	25	22.4	90	64-103
108-90-7	Chlorobenzene	25	21.0	84	74-111
75-00-3	Chloroethane	25	19.3	77	75-135
67-66-3	Chloroform	25	22.4	90	75-117
75-15-0	Carbon disulfide	25	18.1	72	57-126
56-23-5	Carbon tetrachloride	25	26.3	105	75-125
75-34-3	1,1-Dichloroethane	25	20.2	81	76-121
75-35-4	1,1-Dichloroethylene	25	20.3	81	71-128
107-06-2	1,2-Dichloroethane	25	23.7	95	70-111
78-87-5	1,2-Dichloropropane	25	19.7	79	71-113
124-48-1	Dibromochloromethane	25	21.8	87	69-104
156-59-2	cis-1,2-Dichloroethylene	25	23.2	93	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	71-111
156-60-5	trans-1,2-Dichloroethylene	25	20.4	82	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.4	90	75-111
100-41-4	Ethylbenzene	25	19.6	78	75-112
591-78-6	2-Hexanone	125	107	86	60-113
108-10-1	4-Methyl-2-pentanone	125	116	93	63-115
74-83-9	Methyl bromide	25	21.7	87	59-132
74-87-3	Methyl chloride	25	16.2	65	56-150
75-09-2	Methylene chloride	25	20.0	80	70-113
78-93-3	Methyl ethyl ketone	125	110	88	62-117
100-42-5	Styrene	25	20.9	84	66-100
71-55-6	1,1,1-Trichloroethane	25	26.3	105	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.2	77	67-110
79-00-5	1,1,2-Trichloroethane	25	18.8	75	69-107
127-18-4	Tetrachloroethylene	25	25.5	102	77-120
108-88-3	Toluene	25	19.2	77	77-114
79-01-6	Trichloroethylene	25	23.0	92	74-117
75-01-4	Vinyl chloride	25	19.1	76	64-121
1330-20-7	Xylene (total)	75	61.7	82	75-111

Blank Spike Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1023-BS	M0025299.D	1	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	101%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50470-3MS	M0025312.D	500	04/19/10	JL	n/a	n/a	VM1023
T50470-3MSD	M0025313.D	500	04/19/10	JL	n/a	n/a	VM1023
T50470-3	M0025311.D	500	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Compound	T50470-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		62500	48200	77	54300	87	12	62-124/21
71-43-2	Benzene	ND		12500	9630	77	9210	74*	4	76-118/16
75-27-4	Bromodichloromethane	ND		12500	11500	92	11600	93	1	68-107/12
75-25-2	Bromoform	ND		12500	9600	77	10700	86	11	64-103/14
108-90-7	Chlorobenzene	ND		12500	10200	82	10100	81	1	74-111/11
75-00-3	Chloroethane	ND		12500	12000	96	11200	90	7	75-135/15
67-66-3	Chloroform	ND		12500	12000	96	11900	95	1	75-117/12
75-15-0	Carbon disulfide	ND		12500	8640	69	8420	67	3	57-126/13
56-23-5	Carbon tetrachloride	ND		12500	14000	112	13500	108	4	75-125/12
75-34-3	1,1-Dichloroethane	6930		12500	16000	73*	16000	73*	0	76-121/13
75-35-4	1,1-Dichloroethylene	1210		12500	11200	80	11200	80	0	71-128/19
107-06-2	1,2-Dichloroethane	572	J	12500	12200	93	12600	96	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		12500	9060	72	8980	72	1	71-113/12
124-48-1	Dibromochloromethane	ND		12500	9840	79	10300	82	5	69-104/12
156-59-2	cis-1,2-Dichloroethylene	121000	E	12500	129000	64* [a]	126000	40* [a]	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		12500	11700	94	12300	98	5	71-111/12
156-60-5	trans-1,2-Dichloroethylene	8200		12500	17700	76	17100	71	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		12500	10100	81	10600	85	5	75-111/12
100-41-4	Ethylbenzene	ND		12500	9430	75	9490	76	1	75-112/12
591-78-6	2-Hexanone	ND		62500	41400	66	47700	76	14	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		62500	45400	73	50900	81	11	63-115/21
74-83-9	Methyl bromide	ND		12500	12900	103	12600	101	2	59-132/15
74-87-3	Methyl chloride	ND		12500	12100	97	11900	95	2	56-150/17
75-09-2	Methylene chloride	3940		12500	11700	62*	12100	65*	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		62500	47500	76	51200	82	7	62-117/21
100-42-5	Styrene	ND		12500	9770	78	9780	78	0	66-100/11
71-55-6	1,1,1-Trichloroethane	11500		12500	25100	109	24300	102	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	29400		12500	35700	50* [a]	40900	92	14	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		12500	8760	70	8650	69	1	69-107/14
127-18-4	Tetrachloroethylene	179000	E	12500	178000	-8* [a]	174000	-40* [a]	2	77-120/13
108-88-3	Toluene	ND		12500	9270	74*	9010	72*	3	77-114/12
79-01-6	Trichloroethylene	475000	E	12500	459000	-128* [a]	450000	-200* [a]	2	74-117/12
75-01-4	Vinyl chloride	3430		12500	15400	96	15400	96	0	64-121/19
1330-20-7	Xylene (total)	ND		37500	30200	81	30400	81	1	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T51075
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T50470-3MS	M0025312.D	500	04/19/10	JL	n/a	n/a	VM1023
T50470-3MSD	M0025313.D	500	04/19/10	JL	n/a	n/a	VM1023
T50470-3	M0025311.D	500	04/19/10	JL	n/a	n/a	VM1023

The QC reported here applies to the following samples: **Method:** SW846 8260B

T51075-1, T51075-2

CAS No.	Surrogate Recoveries	MS	MSD	T50470-3	Limits
1868-53-7	Dibromofluoromethane	109%	109%	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	116%	107%	75-121%
2037-26-5	Toluene-D8	99%	99%	100%	87-119%
460-00-4	4-Bromofluorobenzene	99%	100%	104%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T53005

Sampling Date: 05/19/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@44312 12:40 12-Jul-2010

Sample Summary

United Technology Corporation

Job No: T53005

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T53005-1	05/19/10	13:15		05/20/10	AQ	Ground Water	MW60
T53005-2	05/19/10	13:50		05/20/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T53005
Site:	XDD/UT Collierville/031091	**Report Date**	6/3/2010 11:54:07 AM

2 Sample(s), were collected on 05/19/2010 and were received at Accutest on 05/20/2010 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of T53005. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX570

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52979-29MS, T52979-29MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for Chloroethane are outside control limits. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VZ2888

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T53423-1MS, T53423-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4-Methyl-2-pentanone are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T53005-1	**Date Sampled:**	05/19/10
Matrix:	AQ - Ground Water	**Date Received:**	05/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0061843.D	1	05/27/10	NM	n/a	n/a	VX570
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T53005-1	**Date Sampled:**	05/19/10
Matrix:	AQ - Ground Water	**Date Received:**	05/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	86%		75-121%
2037-26-5	Toluene-D8	87%		87-119%
460-00-4	4-Bromofluorobenzene	85%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T53005-2	**Date Sampled:**	05/19/10
Matrix:	AQ - Ground Water	**Date Received:**	05/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z009223.D	1	05/28/10	NM	n/a	n/a	VZ2888
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T53005-2	**Date Sampled:**	05/19/10
Matrix:	AQ - Ground Water	**Date Received:**	05/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	88%		75-121%
2037-26-5	Toluene-D8	97%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T53005

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: FRANK O'CONNELL JR

Project Information

Project Name: VT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260	LAB USE ONLY
1	MW60		5-19-10	1315	JFO	GW	3	3								X	
2	MW 62		5-19-10	1350	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

☒ 10 Day STANDARD — Approved By: / Date:
☐ 5 Day RUSH
☐ 3 Day EMERGENCY
☐ 2 Day EMERGENCY
☐ 1 Day EMERGENCY
☐ Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

☐ Commercial "A"
☐ Commercial "B"
☐ Reduced Tier 1
☐ Full Tier 1
☐ TRRP13
☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER VTC
STANDARD TAT
EMAIL RESULTS TO JFO121@AOL.COM
BILL TO XAD-LLC BRUCE CLIFF

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	5-19-10/1430	1 FEDEX	2 ~~FED EX~~ JS 5/20/10	5-19-10/1430	2
Relinquished by: 3 FED EX	Date Time: 5/20/10 0915	Received by: 3 [signature]	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 1.6°C

T53005: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T53005 Client: UTC Date/Time Received: 5/20/10 0915

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4°C

Cooler Temps: #1: 1.6°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 5/20/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 5-20-10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

T53005: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T53005 DATE/TIME RECEIVED: 5/20/10 0915

CLIENT: UTC INITIALS: IS

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW60	5/19/10 1315	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
"	2	MW62	" 1350	"	"	1-3	"	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
				IS 5/20/10				1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

4.1

4

T53005: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX570-MB	X0061822.D	1	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX570-MB	X0061822.D	1	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	86%	80-133%

Method Blank Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2888-MB	Z009210.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2888-MB	Z009210.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	75-121%
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	85%	80-133%

Blank Spike Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX570-BS	X0061820.D	1	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	83.7	67	62-124
71-43-2	Benzene	25	22.7	91	76-118
75-27-4	Bromodichloromethane	25	22.2	89	68-107
75-25-2	Bromoform	25	23.7	95	64-103
108-90-7	Chlorobenzene	25	23.8	95	74-111
75-00-3	Chloroethane	25	19.7	79	75-135
67-66-3	Chloroform	25	22.5	90	75-117
75-15-0	Carbon disulfide	25	19.6	78	57-126
56-23-5	Carbon tetrachloride	25	28.7	115	75-125
75-34-3	1,1-Dichloroethane	25	21.7	87	76-121
75-35-4	1,1-Dichloroethylene	25	24.0	96	71-128
107-06-2	1,2-Dichloroethane	25	21.2	85	70-111
78-87-5	1,2-Dichloropropane	25	21.7	87	71-113
124-48-1	Dibromochloromethane	25	23.3	93	69-104
156-59-2	cis-1,2-Dichloroethylene	25	25.8	103	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.1	88	71-111
156-60-5	trans-1,2-Dichloroethylene	25	21.8	87	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.0	88	75-111
100-41-4	Ethylbenzene	25	23.4	94	75-112
591-78-6	2-Hexanone	125	87.6	70	60-113
108-10-1	4-Methyl-2-pentanone	125	92.2	74	63-115
74-83-9	Methyl bromide	25	20.8	83	59-132
74-87-3	Methyl chloride	25	19.9	80	56-150
75-09-2	Methylene chloride	25	18.6	74	70-113
78-93-3	Methyl ethyl ketone	125	88.7	71	62-117
100-42-5	Styrene	25	23.8	95	66-100
71-55-6	1,1,1-Trichloroethane	25	26.0	104	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.2	77	67-110
79-00-5	1,1,2-Trichloroethane	25	21.3	85	69-107
127-18-4	Tetrachloroethylene	25	28.4	114	77-120
108-88-3	Toluene	25	23.4	94	77-114
79-01-6	Trichloroethylene	25	24.6	98	74-117
75-01-4	Vinyl chloride	25	22.9	92	64-121
1330-20-7	Xylene (total)	75	70.6	94	75-111

Blank Spike Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX570-BS	X0061820.D	1	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	85%	75-121%
2037-26-5	Toluene-D8	92%	87-119%
460-00-4	4-Bromofluorobenzene	84%	80-133%

Blank Spike Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2888-BS	Z009208.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	62-124
71-43-2	Benzene	25	25.8	103	76-118
75-27-4	Bromodichloromethane	25	24.3	97	68-107
75-25-2	Bromoform	25	20.2	81	64-103
108-90-7	Chlorobenzene	25	23.1	92	74-111
75-00-3	Chloroethane	25	23.7	95	75-135
67-66-3	Chloroform	25	25.4	102	75-117
75-15-0	Carbon disulfide	25	23.3	93	57-126
56-23-5	Carbon tetrachloride	25	28.9	116	75-125
75-34-3	1,1-Dichloroethane	25	24.5	98	76-121
75-35-4	1,1-Dichloroethylene	25	26.1	104	71-128
107-06-2	1,2-Dichloroethane	25	23.5	94	70-111
78-87-5	1,2-Dichloropropane	25	24.6	98	71-113
124-48-1	Dibromochloromethane	25	20.9	84	69-104
156-59-2	cis-1,2-Dichloroethylene	25	27.3	109	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.6	98	71-111
156-60-5	trans-1,2-Dichloroethylene	25	26.4	106	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.0	88	75-111
100-41-4	Ethylbenzene	25	22.8	91	75-112
591-78-6	2-Hexanone	125	89.2	71	60-113
108-10-1	4-Methyl-2-pentanone	125	126	101	63-115
74-83-9	Methyl bromide	25	24.6	98	59-132
74-87-3	Methyl chloride	25	21.7	87	56-150
75-09-2	Methylene chloride	25	20.0	80	70-113
78-93-3	Methyl ethyl ketone	125	133	106	62-117
100-42-5	Styrene	25	20.5	82	66-100
71-55-6	1,1,1-Trichloroethane	25	27.5	110	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.0	76	67-110
79-00-5	1,1,2-Trichloroethane	25	20.9	84	69-107
127-18-4	Tetrachloroethylene	25	26.0	104	77-120
108-88-3	Toluene	25	22.5	90	77-114
79-01-6	Trichloroethylene	25	26.8	107	74-117
75-01-4	Vinyl chloride	25	25.9	104	64-121
1330-20-7	Xylene (total)	75	67.7	90	75-111

Blank Spike Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2888-BS	Z009208.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	75-121%
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T52979-29MS	X0061826.D	1000	05/27/10	NM	n/a	n/a	VX570
T52979-29MSD	X0061827.D	1000	05/27/10	NM	n/a	n/a	VX570
T52979-29	X0061825.D	1000	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Compound	T52979-29 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50000	U	125000	90700	73	84700	68	7	62-124/21
71-43-2	Benzene	2000	U	25000	22900	92	22100	88	4	76-118/16
75-27-4	Bromodichloromethane	2000	U	25000	22400	90	21900	88	2	68-107/12
75-25-2	Bromoform	2000	U	25000	25000	100	23900	96	4	64-103/14
108-90-7	Chlorobenzene	2000	U	25000	23800	95	23100	92	3	74-111/11
75-00-3	Chloroethane	2000	U	25000	18800	75	18100	72*	4	75-135/15
67-66-3	Chloroform	2000	U	25000	22900	92	22000	88	4	75-117/12
75-15-0	Carbon disulfide	2000	U	25000	19500	78	18400	74	6	57-126/13
56-23-5	Carbon tetrachloride	2000	U	25000	28600	114	27200	109	5	75-125/12
75-34-3	1,1-Dichloroethane	2000	U	25000	21600	86	20900	84	3	76-121/13
75-35-4	1,1-Dichloroethylene	2000	U	25000	23900	96	22200	89	7	71-128/19
107-06-2	1,2-Dichloroethane	74600		25000	98700	96	95800	85	3	70-111/14
78-87-5	1,2-Dichloropropane	2000	U	25000	21300	85	21000	84	1	71-113/12
124-48-1	Dibromochloromethane	2000	U	25000	24200	97	23400	94	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	9190		25000	35400	105	34100	100	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2000	U	25000	22100	88	21600	86	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	538	J	25000	22600	88	21800	85	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2000	U	25000	22700	91	21900	88	4	75-111/12
100-41-4	Ethylbenzene	2000	U	25000	23200	93	22300	89	4	75-112/12
591-78-6	2-Hexanone	10000	U	125000	98700	79	88600	71	11	60-113/18
108-10-1	4-Methyl-2-pentanone	10000	U	125000	103000	82	94300	75	9	63-115/21
74-83-9	Methyl bromide	2000	U	25000	21000	84	20300	81	3	59-132/15
74-87-3	Methyl chloride	2000	U	25000	19500	78	18500	74	5	56-150/17
75-09-2	Methylene chloride	5000	U	25000	18900	76	18500	74	2	70-113/13
78-93-3	Methyl ethyl ketone	10000	U	125000	101000	81	92500	74	9	62-117/21
100-42-5	Styrene	2000	U	25000	23800	95	23300	93	2	66-100/11
71-55-6	1,1,1-Trichloroethane	2000	U	25000	25900	104	25200	101	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2000	U	25000	20800	83	19200	77	8	67-110/20
79-00-5	1,1,2-Trichloroethane	2000	U	25000	22000	88	21300	85	3	69-107/14
127-18-4	Tetrachloroethylene	63800		25000	91300	110	87900	96	4	77-120/13
108-88-3	Toluene	2000	U	25000	23000	92	22600	90	2	77-114/12
79-01-6	Trichloroethylene	18800		25000	43700	100	42100	93	4	74-117/12
75-01-4	Vinyl chloride	2000	U	25000	23300	93	22400	90	4	64-121/19
1330-20-7	Xylene (total)	6000	U	75000	70100	93	68800	92	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T52979-29MS	X0061826.D	1000	05/27/10	NM	n/a	n/a	VX570
T52979-29MSD	X0061827.D	1000	05/27/10	NM	n/a	n/a	VX570
T52979-29	X0061825.D	1000	05/27/10	NM	n/a	n/a	VX570

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-1

CAS No.	Surrogate Recoveries	MS	MSD	T52979-29	Limits
1868-53-7	Dibromofluoromethane	96%	96%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	85%	88%	75-121%
2037-26-5	Toluene-D8	90%	91%	89%	87-119%
460-00-4	4-Bromofluorobenzene	85%	85%	84%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T53423-1MS	Z009220.D	1	05/28/10	NM	n/a	n/a	VZ2888
T53423-1MSD	Z009221.D	1	05/28/10	NM	n/a	n/a	VZ2888
T53423-1	Z009219.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Compound	T53423-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	117	94	98.8	79	17	62-124/21
71-43-2	Benzene	2.0 U		25	25.4	102	25.7	103	1	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	24.7	99	24.4	98	1	68-107/12
75-25-2	Bromoform	2.0 U		25	22.9	92	20.0	80	14	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	23.2	93	22.7	91	2	74-111/11
75-00-3	Chloroethane	2.0 U		25	24.1	96	21.9	88	10	75-135/15
67-66-3	Chloroform	2.0 U		25	26.2	105	25.3	101	3	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	24.5	98	21.5	86	13	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	26.3	105	26.1	104	1	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	25.1	100	24.2	97	4	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	27.2	109	23.9	96	13	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	24.2	97	23.9	96	1	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	24.7	99	24.7	99	0	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	22.0	88	21.3	85	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	28.0	112	27.1	108	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	25.8	103	25.2	101	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	25.7	103	24.0	96	7	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	22.2	89	21.5	86	3	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	21.5	86	21.7	87	1	75-112/12
591-78-6	2-Hexanone	10 U		125	99.5	80	90.9	73	9	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	146	117*	143	114	2	63-115/21
74-83-9	Methyl bromide	2.0 U		25	26.3	105	22.6	90	15	59-132/15
74-87-3	Methyl chloride	2.0 U		25	23.1	92	20.5	82	12	56-150/17
75-09-2	Methylene chloride	5.0 U		25	22.1	88	19.5	78	13	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	140	112	132	106	6	62-117/21
100-42-5	Styrene	2.0 U		25	20.7	83	19.9	80	4	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	25.5	102	25.0	100	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	19.7	79	18.1	72	8	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	20.5	82	20.3	81	1	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	25.1	100	24.0	96	4	77-120/13
108-88-3	Toluene	2.0 U		25	21.8	87	22.0	88	1	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	25.9	104	25.4	102	2	74-117/12
75-01-4	Vinyl chloride	2.0 U		25	26.2	105	23.5	94	11	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	66.8	89	65.5	87	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T53005
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T53423-1MS	Z009220.D	1	05/28/10	NM	n/a	n/a	VZ2888
T53423-1MSD	Z009221.D	1	05/28/10	NM	n/a	n/a	VZ2888
T53423-1	Z009219.D	1	05/28/10	NM	n/a	n/a	VZ2888

The QC reported here applies to the following samples: **Method:** SW846 8260B

T53005-2

CAS No.	Surrogate Recoveries	MS	MSD	T53423-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	85%	84%	88%	75-121%
2037-26-5	Toluene-D8	90%	91%	99%	87-119%
460-00-4	4-Bromofluorobenzene	82%	82%	87%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T54904

Sampling Date: 06/21/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **61**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Accutest LabLink@44312 12:41 12-Jul-2010

Sample Summary

United Technology Corporation

Job No: T54904

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T54904-1	06/21/10	10:20		06/22/10	AQ	Ground Water	MW4
T54904-2	06/21/10	10:20		06/22/10	AQ	Ground Water	MW10
T54904-3	06/21/10	11:10		06/22/10	AQ	Ground Water	MW31R
T54904-4	06/21/10	13:05		06/22/10	AQ	Ground Water	MW60
T54904-5	06/21/10	13:55		06/22/10	AQ	Ground Water	MW62
T54904-6	06/21/10	13:10		06/22/10	AQ	Ground Water	DUPLICATE
T54904-7	06/21/10	00:00		06/22/10	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T54904
Site:	XDD/UT Collierville/031091	**Report Date**	7/2/2010 9:04:01 AM

6 Sample(s) and 1 Trip Blank(s) were collected on 06/21/2010 and were received at Accutest on 06/22/2010 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of T54904. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ2925

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T54904-2MS, T54904-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methylene chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Methyl bromide are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Trichloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix AQ **Batch ID:** VZ2926

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T55089-10MS, T55089-10MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP12124

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T54851-1DUP, T54851-1MS, T54851-1MSD, T54851-1SDL, T54851-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Chromium, Lead are outside control limits for sample MP12124-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Chromium, Lead, Zinc are outside control limits for sample MP12124-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T54904-1	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010113.D	1	06/29/10	NM	n/a	n/a	VZ2925
Run #2	Z010104.D	25	06/29/10	NM	n/a	n/a	VZ2925

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.6	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2030 [a]	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T54904-1	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	21.0	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	1450 [a]	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	3.1	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	108%	75-121%
2037-26-5	Toluene-D8	98%	101%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T54904-1	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T54904-1	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	27.1	3.0	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	4640	20	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4852
(2) Prep QC Batch: MP12124

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T54904-2	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010114.D	50	06/29/10	NM	n/a	n/a	VZ2925
Run #2	Z010105.D	500	06/29/10	NM	n/a	n/a	VZ2925

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	100	ug/l	
108-86-1	Bromobenzene	ND	100	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	432	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
541-73-1	m-Dichlorobenzene	ND	100	ug/l	
95-50-1	o-Dichlorobenzene	ND	100	ug/l	
106-46-7	p-Dichlorobenzene	ND	100	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T54904-2	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	500	ug/l	
74-83-9	Methyl bromide	ND	100	ug/l	
74-87-3	Methyl chloride	ND	100	ug/l	
74-95-3	Methylene bromide	ND	100	ug/l	
75-09-2	Methylene chloride	ND	250	ug/l	
78-93-3	Methyl ethyl ketone	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
127-18-4	Tetrachloroethylene	ND	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
79-01-6	Trichloroethylene	52200 [a]	1000	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
75-01-4	Vinyl chloride	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	300	ug/l	
	m,p-Xylene	ND	200	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	106%	75-121%
2037-26-5	Toluene-D8	101%	101%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T54904-2	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	102%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T54904-2	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 3.0	3.0	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4852
(2) Prep QC Batch: MP12124

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T54904-3	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010138.D	1	06/29/10	NM	n/a	n/a	VZ2926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.8	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T54904-3	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.7	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	112%		75-121%
2037-26-5	Toluene-D8	103%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T54904-3	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T54904-3	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	4.4	3.0	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	60.0	20	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4852
(2) Prep QC Batch: MP12124

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T54904-4	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010139.D	1	06/29/10	NM	n/a	n/a	VZ2926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T54904-4	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	97%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T54904-4	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T54904-4	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	36.1	20	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4852
(2) Prep QC Batch: MP12124

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T54904-5	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010140.D	1	06/29/10	NM	n/a	n/a	VZ2926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T54904-5	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	102%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T54904-5	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T54904-5	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	06/23/10	06/23/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4852
(2) Prep QC Batch: MP12124

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T54904-6	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010141.D	1	06/29/10	NM	n/a	n/a	VZ2926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T54904-6	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	99%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T54904-6	**Date Sampled:**	06/21/10
Matrix:	AQ - Ground Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T54904-7	**Date Sampled:**	06/21/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z010097.D	1	06/29/10	NM	n/a	n/a	VZ2925
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T54904-7	**Date Sampled:**	06/21/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	98%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T54904-7	**Date Sampled:**	06/21/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T54904

Client / Reporting Information

Company Name	SAS ENVIRONMENTAL INC
Address	1270 S. Cleve-Mass RD
City / State / Zip	AKRON OH 44321
Project Contact / E-mail	MARK V. ALLEN. mallen@SASENVIRONMENTAL.com
Phone #	330 666 1546
Sampler's Name	J FRANK O'CONNELL JR

Project Information

Project Name	UT COLLIERVILLE
Street	97 S. BYHALIA RD
City / State	COLLIERVILLE TN
Project #	031091
Fax #	330 666 7443
Client Purchase Order #	

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	HNO3	H2SO4	NONE	NaHSO4	MEOH	DI/DRE	VOC 8260 FULL LIST	LEAD/ZINC 6010.6	LAB USE ONLY
1	MW 4		6-21-10	1020	JFO	GW	4	3							X	X	
2	MW 10		6-21-10	1150	JFO	GW	4	3							X	X	
3	MW 31R		6-21-10	1110	JFO	GW	4	3							X	X	
7	TRIP BLANK		6-21-10	—	LAO	WW	2	2							X		

JFO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@COL.COM
Bill to XDP-LLC BRUCE CLIFF

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
[signature]	6-21-10/1645	1 FedEx	2 FedEx	6-21-10/1645	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by:	Date Time:	Received by:	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp 17°C

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T54904: Chain of Custody
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ACCUTEST Laboratories
T54904

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T54904

Client / Reporting Information

Company Name	SAS ENVIRONMENTAL INC
Address	1270 S. CLEVE-MASS RD
City / State / Zip	AKRON OH 44321
Project Contact / E-mail	MARK V. ALLEN m.allen@SASENVIRONMENTAL.COM
Phone #	330 666 2546
Sampler's Name	J FRANK O'CONNELL JR

Project Information

Project Name	UT COLLIERVILLE
Street	97 S. BYHALA ROAD
City / State	COLLIERVILLE TN
Project #	031091
Fax #	330 666 7443
Client Purchase Order #	Bill to XDD LLC

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260 FULL LIST	TOTAL Cr / LEAD / ZINC	LAB USE ONLY
4	MW 60		6-21-10	1305	JFO	GW	4	3		1						X	X	
5	MW 62		6-21-10	1355	JFO	GW	4	3		1						X	X	
6	DUPLICATE		6-21-10	1310	JFO	GW	3	3								X		

JFO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Turnaround Time (Business Days)

- ☒ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS TO JFO121@aol.com
Bill to XDD-LLC BRUCE CLIFF

Sample Custody must be documented below each time samples change possession, including courier delivery. 6/22/10 0915

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 [signature]	6-21-10/1645	1 FED EX	2 FedEX	6-21-10/1645	2 [signature]
3		3	4		4
5		5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. [illegible]

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T54904: Chain of Custody
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SAMPLE INSPECTION FORM

Accutest Job Number: T54904 Client: SAS Environmental, Inc Date/Time Received: 6-22-10 0915

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4°C

Cooler Temps: #1: 1.2°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8706 6705 9235

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [x] ID on COC does not match label(s)
- [x] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [x] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies:
Cooler received covered with some type of oil. Oil on inside of cooler also. Some sample bottles covered with oil also.
Sample #1, bottle #1 has date discrepancy. Duplicate vials have different labels, 1 duplicate labeled as MW60.

TECHNICIAN SIGNATURE/DATE: [signature] 6-22-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: _____

CORRECTIVE ACTIONS

Client Representative Notified: Frank O'Connell **Date:** 6-22-10

By Accutest Representative: Sylvia Gayle **Via:** Phone (Email)

Client Instructions:
Client was informed 1 vial labeled as MW60 grouped with the Duplicate vials (2 vials) not using that vial for analysis

SAMPLE RECEIPT LOG

JOB #: T54904 DATE/TIME RECEIVED: 6-22-10 0915

CLIENT: SAS Environmental, Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW 4	6-21-10 1020	W	500 ml	1	1-DD	1 2 3 4 5 6 7 8	<2 >12
	↓	↓	↓		40 ml	2-4	VR	1 2 3 4 5 6 7 8	<2 >12
	2	MW10	1150		500 ml	1	1-DD	1 2 3 4 5 6 7 8	<2 >12
	↓	↓	↓		40 ml	2-4	VR	1 2 3 4 5 6 7 8	<2 >12
	3	MW 31R	1110		500 ml	1	1-DD	1 2 3 4 5 6 7 8	<2 >12
	↓	↓	↓		40 ml	2-4	VR	1 2 3 4 5 6 7 8	<2 >12
	4	MW 60	1305		500 ml	1	1-DD	1 2 3 4 5 6 7 8	<2 >12
	↓	↓	↓		40 ml	2-4	VR	1 2 3 4 5 6 7 8	<2 >12
	5	MW 62	1355		500 ml	1	1-DD	1 2 3 4 5 6 7 8	<2 >12
	↓	↓	↓		40 ml	2-4	VR	1 2 3 4 5 6 7 8	<2 >12
	6	Duplicate	1310		40 ml	1-2	VR	1 2 3 4 5 6 7 8	<2 >12
	~~6~~ 6A	MW60	1305			3		1 2 3 4 5 6 7 8	<2 >12
	7	Trip Blank	—			1-2		1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

DRA 6-22-10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T54904: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-MB	Z010095.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-MB	Z010095.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	75-121%

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-MB	Z010095.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	103%	87-119%
460-00-4	4-Bromofluorobenzene	105%	80-133%

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-MB	Z010122.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-MB	Z010122.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	111%	75-121%

Method Blank Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-MB	Z010122.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-BS	Z010092.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	62-124
71-43-2	Benzene	25	24.4	98	76-118
108-86-1	Bromobenzene	25	21.4	86	72-110
74-97-5	Bromochloromethane	25	21.4	86	69-110
75-27-4	Bromodichloromethane	25	23.7	95	68-107
75-25-2	Bromoform	25	21.0	84	64-103
104-51-8	n-Butylbenzene	25	23.7	95	74-114
135-98-8	sec-Butylbenzene	25	23.9	96	76-118
98-06-6	tert-Butylbenzene	25	24.0	96	72-116
108-90-7	Chlorobenzene	25	22.1	88	74-111
75-00-3	Chloroethane	25	20.6	82	75-135
67-66-3	Chloroform	25	23.7	95	75-117
95-49-8	o-Chlorotoluene	25	23.4	94	74-113
106-43-4	p-Chlorotoluene	25	23.3	93	72-114
75-15-0	Carbon disulfide	25	17.1	68	57-126
56-23-5	Carbon tetrachloride	25	26.7	107	75-125
75-34-3	1,1-Dichloroethane	25	26.2	105	76-121
75-35-4	1,1-Dichloroethylene	25	24.7	99	71-128
563-58-6	1,1-Dichloropropene	25	26.5	106	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.9	84	55-121
106-93-4	1,2-Dibromoethane	25	21.3	85	69-106
107-06-2	1,2-Dichloroethane	25	25.2	101	70-111
78-87-5	1,2-Dichloropropane	25	25.8	103	71-113
142-28-9	1,3-Dichloropropane	25	23.6	94	69-106
594-20-7	2,2-Dichloropropane	25	24.6	98	68-130
124-48-1	Dibromochloromethane	25	22.1	88	69-104
75-71-8	Dichlorodifluoromethane	25	14.3	57	28-120
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.7	99	71-111
541-73-1	m-Dichlorobenzene	25	22.3	89	74-110
95-50-1	o-Dichlorobenzene	25	22.4	90	72-108
106-46-7	p-Dichlorobenzene	25	22.0	88	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.5	90	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.5	98	75-111
100-41-4	Ethylbenzene	25	23.3	93	75-112
591-78-6	2-Hexanone	125	127	102	60-113

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-BS	Z010092.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	24.9	100	72-123
98-82-8	Isopropylbenzene	25	27.8	111	75-123
99-87-6	p-Isopropyltoluene	25	23.9	96	76-116
108-10-1	4-Methyl-2-pentanone	125	107	86	63-115
74-83-9	Methyl bromide	25	16.6	66	59-132
74-87-3	Methyl chloride	25	18.6	74	56-150
74-95-3	Methylene bromide	25	23.2	93	68-114
75-09-2	Methylene chloride	25	28.0	112	70-113
78-93-3	Methyl ethyl ketone	125	112	90	62-117
1634-04-4	Methyl Tert Butyl Ether	25	22.8	91	65-113
91-20-3	Naphthalene	25	23.0	92	53-127
103-65-1	n-Propylbenzene	25	24.2	97	74-115
100-42-5	Styrene	25	22.2	89	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	22.3	89	72-108
71-55-6	1,1,1-Trichloroethane	25	25.5	102	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.5	90	67-110
79-00-5	1,1,2-Trichloroethane	25	22.9	92	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.7	95	51-128
96-18-4	1,2,3-Trichloropropane	25	19.0	76	55-116
120-82-1	1,2,4-Trichlorobenzene	25	24.3	97	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.5	90	73-111
108-67-8	1,3,5-Trimethylbenzene	25	27.8	111	74-115
127-18-4	Tetrachloroethylene	25	26.2	105	77-120
108-88-3	Toluene	25	23.4	94	77-114
79-01-6	Trichloroethylene	25	23.8	95	74-117
75-69-4	Trichlorofluoromethane	25	23.0	92	64-132
75-01-4	Vinyl chloride	25	19.4	78	64-121
1330-20-7	Xylene (total)	75	66.8	89	75-111
	m,p-Xylene	50	45.3	91	75-112
95-47-6	o-Xylene	25	21.5	86	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2925-BS	Z010092.D	1	06/28/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	104%	80-133%

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-BS	Z010119.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	62-124
71-43-2	Benzene	25	24.0	96	76-118
108-86-1	Bromobenzene	25	21.9	88	72-110
74-97-5	Bromochloromethane	25	20.7	83	69-110
75-27-4	Bromodichloromethane	25	22.9	92	68-107
75-25-2	Bromoform	25	19.7	79	64-103
104-51-8	n-Butylbenzene	25	24.8	99	74-114
135-98-8	sec-Butylbenzene	25	24.2	97	76-118
98-06-6	tert-Butylbenzene	25	23.5	94	72-116
108-90-7	Chlorobenzene	25	21.9	88	74-111
75-00-3	Chloroethane	25	25.6	102	75-135
67-66-3	Chloroform	25	23.1	92	75-117
95-49-8	o-Chlorotoluene	25	23.2	93	74-113
106-43-4	p-Chlorotoluene	25	22.5	90	72-114
75-15-0	Carbon disulfide	25	17.0	68	57-126
56-23-5	Carbon tetrachloride	25	26.3	105	75-125
75-34-3	1,1-Dichloroethane	25	25.4	102	76-121
75-35-4	1,1-Dichloroethylene	25	24.3	97	71-128
563-58-6	1,1-Dichloropropene	25	26.0	104	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.6	78	55-121
106-93-4	1,2-Dibromoethane	25	20.7	83	69-106
107-06-2	1,2-Dichloroethane	25	23.4	94	70-111
78-87-5	1,2-Dichloropropane	25	24.7	99	71-113
142-28-9	1,3-Dichloropropane	25	22.5	90	69-106
594-20-7	2,2-Dichloropropane	25	26.5	106	68-130
124-48-1	Dibromochloromethane	25	21.3	85	69-104
75-71-8	Dichlorodifluoromethane	25	25.4	102	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.4	94	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.4	98	71-111
541-73-1	m-Dichlorobenzene	25	21.9	88	74-110
95-50-1	o-Dichlorobenzene	25	22.1	88	72-108
106-46-7	p-Dichlorobenzene	25	21.3	85	74-110
156-60-5	trans-1,2-Dichloroethylene	25	21.8	87	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.9	96	75-111
100-41-4	Ethylbenzene	25	23.0	92	75-112
591-78-6	2-Hexanone	125	125	100	60-113

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-BS	Z010119.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.1	104	72-123
98-82-8	Isopropylbenzene	25	27.5	110	75-123
99-87-6	p-Isopropyltoluene	25	23.7	95	76-116
108-10-1	4-Methyl-2-pentanone	125	104	83	63-115
74-83-9	Methyl bromide	25	20.4	82	59-132
74-87-3	Methyl chloride	25	28.7	115	56-150
74-95-3	Methylene bromide	25	21.7	87	68-114
75-09-2	Methylene chloride	25	28.3	113	70-113
78-93-3	Methyl ethyl ketone	125	110	88	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	65-113
91-20-3	Naphthalene	25	22.3	89	53-127
103-65-1	n-Propylbenzene	25	24.1	96	74-115
100-42-5	Styrene	25	22.4	90	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	22.7	91	72-108
71-55-6	1,1,1-Trichloroethane	25	24.2	97	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.4	86	67-110
79-00-5	1,1,2-Trichloroethane	25	21.4	86	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	51-128
96-18-4	1,2,3-Trichloropropane	25	18.4	74	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.7	95	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.4	90	73-111
108-67-8	1,3,5-Trimethylbenzene	25	27.5	110	74-115
127-18-4	Tetrachloroethylene	25	24.0	96	77-120
108-88-3	Toluene	25	22.5	90	77-114
79-01-6	Trichloroethylene	25	24.6	98	74-117
75-69-4	Trichlorofluoromethane	25	26.8	107	64-132
75-01-4	Vinyl chloride	25	26.4	106	64-121
1330-20-7	Xylene (total)	75	67.5	90	75-111
	m,p-Xylene	50	45.4	91	75-112
95-47-6	o-Xylene	25	22.1	88	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%

Blank Spike Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2926-BS	Z010119.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	101%	87-119%
460-00-4	4-Bromofluorobenzene	100%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T54904-2MS	Z010106.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2MSD	Z010107.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010114.D	50	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010105.D	500	06/29/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	T54904-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		62500	63100	101	68800	110	9	62-124/21
71-43-2	Benzene	ND		12500	12400	99	12000	96	3	76-118/16
108-86-1	Bromobenzene	ND		12500	11100	89	10800	86	3	72-110/12
74-97-5	Bromochloromethane	ND		12500	10900	87	10800	86	1	69-110/12
75-27-4	Bromodichloromethane	ND		12500	11900	95	11600	93	3	68-107/12
75-25-2	Bromoform	ND		12500	10600	85	10900	87	3	64-103/14
104-51-8	n-Butylbenzene	ND		12500	11200	90	10900	87	3	74-114/12
135-98-8	sec-Butylbenzene	ND		12500	11700	94	11000	88	6	76-118/12
98-06-6	tert-Butylbenzene	ND		12500	12200	98	11500	92	6	72-116/14
108-90-7	Chlorobenzene	ND		12500	11300	90	10900	87	4	74-111/11
75-00-3	Chloroethane	ND		12500	10300	82	9520	76	8	75-135/15
67-66-3	Chloroform	ND		12500	12100	97	12000	96	1	75-117/12
95-49-8	o-Chlorotoluene	ND		12500	11800	94	11300	90	4	74-113/12
106-43-4	p-Chlorotoluene	ND		12500	11300	90	11200	90	1	72-114/12
75-15-0	Carbon disulfide	ND		12500	8560	68	7970	64	7	57-126/13
56-23-5	Carbon tetrachloride	ND		12500	13200	106	12500	100	5	75-125/12
75-34-3	1,1-Dichloroethane	ND		12500	13200	106	13300	106	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		12500	12300	98	11500	92	7	71-128/19
563-58-6	1,1-Dichloropropene	ND		12500	13300	106	12700	102	5	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		12500	10900	87	12200	98	11	55-121/33
106-93-4	1,2-Dibromoethane	ND		12500	11300	90	11500	92	2	69-106/13
107-06-2	1,2-Dichloroethane	ND		12500	12300	98	12300	98	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		12500	12900	103	12500	100	3	71-113/12
142-28-9	1,3-Dichloropropane	ND		12500	11900	95	12000	96	1	69-106/12
594-20-7	2,2-Dichloropropane	ND		12500	10400	83	9630	77	8	68-130/14
124-48-1	Dibromochloromethane	ND		12500	11300	90	11100	89	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		12500	6870	55	6260	50	9	28-120/21
156-59-2	cis-1,2-Dichloroethylene	432		12500	12600	97	12200	94	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		12500	12200	98	11800	94	3	71-111/12
541-73-1	m-Dichlorobenzene	ND		12500	11300	90	10900	87	4	74-110/12
95-50-1	o-Dichlorobenzene	ND		12500	11200	90	11000	88	2	72-108/12
106-46-7	p-Dichlorobenzene	ND		12500	10900	87	10700	86	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		12500	11200	90	11000	88	2	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		12500	12000	96	12000	96	0	75-111/12
100-41-4	Ethylbenzene	ND		12500	11800	94	11400	91	3	75-112/12
591-78-6	2-Hexanone	ND		62500	63200	101	71200	114*	12	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T54904-2MS	Z010106.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2MSD	Z010107.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010114.D	50	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010105.D	500	06/29/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Compound	T54904-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		12500	11100	89	11200	90	1	72-123/17
98-82-8	Isopropylbenzene	ND		12500	13800	110	13300	106	4	75-123/12
99-87-6	p-Isopropyltoluene	ND		12500	11600	93	11200	90	4	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		62500	56100	90	58400	93	4	63-115/21
74-83-9	Methyl bromide	ND		12500	8150	65	7310	58*	11	59-132/15
74-87-3	Methyl chloride	ND		12500	9190	74	8480	68	8	56-150/17
74-95-3	Methylene bromide	ND		12500	11500	92	11500	92	0	68-114/13
75-09-2	Methylene chloride	ND		12500	14500	116*	13600	109	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		62500	55900	89	62800	100	12	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		12500	11500	92	11600	93	1	65-113/13
91-20-3	Naphthalene	ND		12500	11200	90	11700	94	4	53-127/34
103-65-1	n-Propylbenzene	ND		12500	12100	97	11400	91	6	74-115/12
100-42-5	Styrene	ND		12500	11400	91	10900	87	4	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		12500	11500	92	11100	89	4	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		12500	13100	105	12300	98	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		12500	11600	93	11800	94	2	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		12500	11400	91	11300	90	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		12500	11300	90	11500	92	2	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		12500	11200	90	9800	78	13	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		12500	11600	93	11300	90	3	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		12500	11300	90	11000	88	3	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		12500	13800	110	13300	106	4	74-115/12
127-18-4	Tetrachloroethylene	ND		12500	12100	97	11800	94	3	77-120/13
108-88-3	Toluene	ND		12500	11600	93	11600	93	0	77-114/12
79-01-6	Trichloroethylene	52200 [b]		12500	65300	162* [a]	62800	142* [a]	4	74-117/12
75-69-4	Trichlorofluoromethane	ND		12500	11100	89	9930	79	11	64-132/18
75-01-4	Vinyl chloride	ND		12500	9440	76	8760	70	7	64-121/19
1330-20-7	Xylene (total)	ND		37500	34400	92	33600	90	2	75-111/12
	m,p-Xylene	ND		25000	23200	93	22600	90	3	75-112/12
95-47-6	o-Xylene	ND		12500	11200	90	11000	88	2	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T54904-2	T54904-2	Limits
1868-53-7	Dibromofluoromethane	101%	97%	103%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	99%	108%	106%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T54904-2MS	Z010106.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2MSD	Z010107.D	500	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010114.D	50	06/29/10	NM	n/a	n/a	VZ2925
T54904-2	Z010105.D	500	06/29/10	NM	n/a	n/a	VZ2925

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-1, T54904-2, T54904-7

CAS No.	Surrogate Recoveries	MS	MSD	T54904-2	T54904-2	Limits
2037-26-5	Toluene-D8	99%	98%	101%	101%	87-119%
460-00-4	4-Bromofluorobenzene	108%	98%	106%	102%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55089-10MS	Z010125.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10MSD	Z010126.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10	Z010124.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	T55089-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	133	106	118	94	12	62-124/21
71-43-2	Benzene	2.0 U		25	24.8	99	24.1	96	3	76-118/16
108-86-1	Bromobenzene	2.0 U		25	22.5	90	21.6	86	4	72-110/12
74-97-5	Bromochloromethane	2.0 U		25	21.8	87	20.8	83	5	69-110/12
75-27-4	Bromodichloromethane	2.0 U		25	24.4	98	23.5	94	4	68-107/12
75-25-2	Bromoform	2.0 U		25	22.1	88	20.9	84	6	64-103/14
104-51-8	n-Butylbenzene	2.0 U		25	22.5	90	23.4	94	4	74-114/12
135-98-8	sec-Butylbenzene	2.0 U		25	22.9	92	22.7	91	1	76-118/12
98-06-6	tert-Butylbenzene	2.0 U		25	23.7	95	22.2	89	7	72-116/14
108-90-7	Chlorobenzene	2.0 U		25	21.9	88	21.8	87	0	74-111/11
75-00-3	Chloroethane	2.0 U		25	27.5	110	26.1	104	5	75-135/15
67-66-3	Chloroform	2.0 U		25	23.8	95	23.2	93	3	75-117/12
95-49-8	o-Chlorotoluene	2.0 U		25	23.6	94	22.6	90	4	74-113/12
106-43-4	p-Chlorotoluene	2.0 U		25	23.2	93	22.3	89	4	72-114/12
75-15-0	Carbon disulfide	2.0 U		25	17.2	69	16.9	68	2	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	26.9	108	24.7	99	9	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	26.2	105	25.6	102	2	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	24.7	99	23.7	95	4	71-128/19
563-58-6	1,1-Dichloropropene	2.0 U		25	27.0	108	25.2	101	7	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	24.6	98	21.7	87	13	55-121/33
106-93-4	1,2-Dibromoethane	2.0 U		25	21.9	88	21.7	87	1	69-106/13
107-06-2	1,2-Dichloroethane	2.0 U		25	25.5	102	24.5	98	4	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	26.3	105	25.5	102	3	71-113/12
142-28-9	1,3-Dichloropropane	2.0 U		25	23.4	94	22.9	92	2	69-106/12
594-20-7	2,2-Dichloropropane	2.0 U		25	27.6	110	26.5	106	4	68-130/14
124-48-1	Dibromochloromethane	2.0 U		25	21.9	88	22.0	88	0	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		25	22.9	92	21.7	87	5	28-120/21
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	23.7	95	23.6	94	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	27.0	108	25.7	103	5	71-111/12
541-73-1	m-Dichlorobenzene	2.0 U		25	22.5	90	22.3	89	1	74-110/12
95-50-1	o-Dichlorobenzene	2.0 U		25	22.9	92	21.7	87	5	72-108/12
106-46-7	p-Dichlorobenzene	2.0 U		25	22.0	88	21.5	86	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	22.3	89	21.0	84	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	24.8	99	24.0	96	3	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	22.6	90	22.4	90	1	75-112/12
591-78-6	2-Hexanone	10 U		125	141	113	122	98	14	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55089-10MS	Z010125.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10MSD	Z010126.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10	Z010124.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Compound	T55089-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	2.0 U		25	21.8	87	23.7	95	8	72-123/17
98-82-8	Isopropylbenzene	2.0 U		25	26.7	107	26.3	105	2	75-123/12
99-87-6	p-Isopropyltoluene	2.0 U		25	23.2	93	22.4	90	4	76-116/12
108-10-1	4-Methyl-2-pentanone	10 U		125	120	96	109	87	10	63-115/21
74-83-9	Methyl bromide	2.0 U		25	22.7	91	21.6	86	5	59-132/15
74-87-3	Methyl chloride	2.0 U		25	29.4	118	28.0	112	5	56-150/17
74-95-3	Methylene bromide	2.0 U		25	24.9	100	23.5	94	6	68-114/13
75-09-2	Methylene chloride	5.0 U		25	28.1	112	27.3	109	3	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	126	101	114	91	10	62-117/21
1634-04-4	Methyl Tert Butyl Ether	2.0 U		25	23.7	95	22.9	92	3	65-113/13
91-20-3	Naphthalene	5.0 U		25	24.3	97	21.7	87	11	53-127/34
103-65-1	n-Propylbenzene	2.0 U		25	23.8	95	22.6	90	5	74-115/12
100-42-5	Styrene	2.0 U		25	22.4	90	22.1	88	1	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	2.0 U		25	22.9	92	22.0	88	4	72-108/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	25.1	100	24.6	98	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	24.5	98	22.0	88	11	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	22.7	91	22.4	90	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		25	22.7	91	22.4	90	1	51-128/31
96-18-4	1,2,3-Trichloropropane	2.0 U		25	20.8	83	17.9	72	15	55-116/27
120-82-1	1,2,4-Trichlorobenzene	2.0 U		25	22.8	91	23.1	92	1	63-114/21
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	22.8	91	22.1	88	3	73-111/13
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	26.7	107	26.3	105	2	74-115/12
127-18-4	Tetrachloroethylene	2.0 U		25	23.2	93	22.9	92	1	77-120/13
108-88-3	Toluene	2.0 U		25	22.4	90	23.2	93	4	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	25.4	102	23.6	94	7	74-117/12
75-69-4	Trichlorofluoromethane	2.0 U		25	27.1	108	26.2	105	3	64-132/18
75-01-4	Vinyl chloride	2.0 U		25	26.6	106	24.9	100	7	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	68.8	92	67.6	90	2	75-111/12
	m,p-Xylene	4.0 U		50	46.1	92	45.6	91	1	75-112/12
95-47-6	o-Xylene	2.0 U		25	22.7	91	22.0	88	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T55089-10	Limits
1868-53-7	Dibromofluoromethane	101%	102%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	107%	108%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T54904
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55089-10MS	Z010125.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10MSD	Z010126.D	1	06/29/10	NM	n/a	n/a	VZ2926
T55089-10	Z010124.D	1	06/29/10	NM	n/a	n/a	VZ2926

The QC reported here applies to the following samples: **Method:** SW846 8260B

T54904-3, T54904-4, T54904-5, T54904-6

CAS No.	Surrogate Recoveries	MS	MSD	T55089-10	Limits
2037-26-5	Toluene-D8	97%	102%	102%	87-119%
460-00-4	4-Bromofluorobenzene	98%	101%	97%	80-133%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T54904
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12124
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9	-0.090	<10
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7	0.10	<3.0
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130		
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1	-0.19	<20

Associated samples MP12124: T54904-1, T54904-2, T54904-3, T54904-4, T54904-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T54904
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12124 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/23/10 06/23/10

Metal	T54851-1 Original	DUP	RPD	QC Limits	T54851-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	1.6	1.2	28.6 (a)	0-20	1.6	374	400	93.1	80-120
Cobalt									
Copper									
Iron	anr								
Lead	2.7	1.8	40.0 (a)	0-20	2.7	370	400	91.8	80-120
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	294	303	3.0	0-20	294	676	400	95.5	80-120

Associated samples MP12124: T54904-1, T54904-2, T54904-3, T54904-4, T54904-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T54904
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12124 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/23/10

Metal	T54851-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	1.6	388	400	96.6	3.7	20
Cobalt						
Copper						
Iron	anr					
Lead	2.7	383	400	95.1	3.5	20
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	294	704	400	102.5	4.1	20

Associated samples MP12124: T54904-1, T54904-2, T54904-3, T54904-4, T54904-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T54904
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12124
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	393	400	98.3	80-120
Cobalt				
Copper				
Iron	anr			
Lead	390	400	97.5	80-120
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	417	400	104.3	80-120

Associated samples MP12124: T54904-1, T54904-2, T54904-3, T54904-4, T54904-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T54904
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12124
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/23/10

Metal	T54851-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	1.55	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron	anr			
Lead	2.67	0.00	100.0(a)	0-10
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	294	326	10.8*(b)	0-10

Associated samples MP12124: T54904-1, T54904-2, T54904-3, T54904-4, T54904-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/12/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T55144

Sampling Date: 06/24/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Accutest LabLink@44312 12:43 12-Jul-2010

Sample Summary

United Technology Corporation

Job No: T55144

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T55144-1	06/24/10	11:55		06/25/10	AQ	Effluent	WP2 EFF
T55144-2	06/24/10	12:05		06/25/10	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T55144
Site:	XDD/UT Collierville/031091	**Report Date**	7/6/2010 3:57:39 PM

2 Sample(s) were collected on 06/24/2010 and were received at Accutest on 06/25/2010 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T55144. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX612

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T55496-1MS, T55496-1MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T55144-1	**Date Sampled:**	06/24/10
Matrix:	AQ - Effluent	**Date Received:**	06/25/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0062886.D	1	07/02/10	NM	n/a	n/a	VX612
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T55144-1	**Date Sampled:**	06/24/10
Matrix:	AQ - Effluent	**Date Received:**	06/25/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	96%		87-119%
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T55144-2	**Date Sampled:**	06/24/10
Matrix:	AQ - Influent	**Date Received:**	06/25/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0062887.D	1	07/02/10	NM	n/a	n/a	VX612
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	29.0	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T55144-2	**Date Sampled:**	06/24/10
Matrix:	AQ - Influent	**Date Received:**	06/25/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	97%		87-119%
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T55144

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. Cleve-Mass Rd
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: FRANK O'CONNELLA

Project Information

Project Name: VT COLLIERVILLE
Street: 97 S. BATTLE RD
City: COLLIERVILLE State: TN
Project #: 031081
Fax #: 330 666 7443
Client Purchase Order #: BILL TO XOD-LLC

Requested Analysis: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260	LAB USE ONLY
1	WPZ EFF		6-24-10	1155	JFO	GW	3	3								X	
2	WPZ INF		6-24-10	1205	JFO	GW	3	3								X	

Turnaround Time (Business Days)

- ☒ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com
BILL to XOD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	6-24-10/1445	1 FED EX	2 Fed EX	6-24-10/1445	2 [signature] 6-25-10
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 1.0°C

T55144: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T55144 Client: SAS Environmental Date/Time Received: 6-25-10 0945

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4°C

Cooler Temps: #1: 1.0°C #2: ____ #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8709 9395 4656

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [✓] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

FedEX p/u time listed as relinquished time also.

TECHNICIAN SIGNATURE/DATE: Dance Huddleston 6-25-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: SC 6-25-10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

SAMPLE RECEIPT LOG

JOB #: T55144 DATE/TIME RECEIVED: 6-25-10 0945

CLIENT: SAS Environmental INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 EFF	6-24-10 1155	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	WP2 INF	6-24-10 1205	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

DRA 6/25/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1:Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T55144: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX612-MB	X0062868.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX612-MB	X0062868.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Blank Spike Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX612-BS	X0062866.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	120	96	62-124
71-43-2	Benzene	25	22.9	92	76-118
75-27-4	Bromodichloromethane	25	22.9	92	68-107
75-25-2	Bromoform	25	21.3	85	64-103
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	18.9	76	75-135
67-66-3	Chloroform	25	22.9	92	75-117
75-15-0	Carbon disulfide	25	21.0	84	57-126
56-23-5	Carbon tetrachloride	25	25.2	101	75-125
75-34-3	1,1-Dichloroethane	25	22.4	90	76-121
75-35-4	1,1-Dichloroethylene	25	28.6	114	71-128
107-06-2	1,2-Dichloroethane	25	23.4	94	70-111
78-87-5	1,2-Dichloropropane	25	23.8	95	71-113
124-48-1	Dibromochloromethane	25	23.4	94	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.7	91	71-111
156-60-5	trans-1,2-Dichloroethylene	25	20.2	81	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	75-111
100-41-4	Ethylbenzene	25	23.1	92	75-112
591-78-6	2-Hexanone	125	103	82	60-113
108-10-1	4-Methyl-2-pentanone	125	105	84	63-115
74-83-9	Methyl bromide	25	18.6	74	59-132
74-87-3	Methyl chloride	25	22.1	88	56-150
75-09-2	Methylene chloride	25	20.9	84	70-113
78-93-3	Methyl ethyl ketone	125	109	87	62-117
100-42-5	Styrene	25	23.4	94	66-100
71-55-6	1,1,1-Trichloroethane	25	23.8	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.5	94	67-110
79-00-5	1,1,2-Trichloroethane	25	24.5	98	69-107
127-18-4	Tetrachloroethylene	25	26.7	107	77-120
108-88-3	Toluene	25	24.2	97	77-114
79-01-6	Trichloroethylene	25	25.1	100	74-117
75-01-4	Vinyl chloride	25	23.2	93	64-121
1330-20-7	Xylene (total)	75	67.5	90	75-111

Blank Spike Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX612-BS	X0062866.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	75-121%
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	94%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55496-1MS	X0062872.D	1	07/02/10	NM	n/a	n/a	VX612
T55496-1MSD	X0062873.D	1	07/02/10	NM	n/a	n/a	VX612
T55496-1	X0062871.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Compound	T55496-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	111	89	128	102	14	62-124/21
71-43-2	Benzene	2.0 U		25	22.4	90	20.9	84	7	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	23.1	92	21.6	86	7	68-107/12
75-25-2	Bromoform	2.0 U		25	21.5	86	21.5	86	0	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	23.2	93	21.8	87	6	74-111/11
75-00-3	Chloroethane	2.0 U		25	20.6	82	19.3	77	7	75-135/15
67-66-3	Chloroform	2.0 U		25	22.9	92	21.4	86	7	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	20.8	83	19.6	78	6	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	25.8	103	23.9	96	8	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	22.5	90	20.8	83	8	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	27.8	111	25.0	100	11	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	23.7	95	22.5	90	5	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	23.3	93	21.7	87	7	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	23.4	94	22.6	90	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	24.3	97	22.5	90	8	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	21.8	87	21.0	84	4	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	20.1	80	18.3	73	9	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	24.4	98	23.5	94	4	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	22.7	91	21.2	85	7	75-112/12
591-78-6	2-Hexanone	10 U		125	139	111	154	123*	10	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	137	110	148	118*	8	63-115/21
74-83-9	Methyl bromide	2.0 U		25	19.5	78	18.1	72	7	59-132/15
74-87-3	Methyl chloride	2.0 U		25	22.0	88	20.2	81	9	56-150/17
75-09-2	Methylene chloride	5.0 U		25	19.9	80	18.7	75	6	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	115	92	124	99	8	62-117/21
100-42-5	Styrene	2.0 U		25	23.1	92	21.6	86	7	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	24.1	96	22.4	90	7	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	24.9	100	25.0	100	0	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	24.3	97	23.9	96	2	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	25.8	103	24.4	98	6	77-120/13
108-88-3	Toluene	2.0 U		25	24.0	96	22.2	89	8	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	24.7	99	23.2	93	6	74-117/12
75-01-4	Vinyl chloride	2.0 U		25	23.1	92	21.6	86	7	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	66.4	89	62.1	83	7	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T55144
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55496-1MS	X0062872.D	1	07/02/10	NM	n/a	n/a	VX612
T55496-1MSD	X0062873.D	1	07/02/10	NM	n/a	n/a	VX612
T55496-1	X0062871.D	1	07/02/10	NM	n/a	n/a	VX612

The QC reported here applies to the following samples: **Method:** SW846 8260B

T55144-1, T55144-2

CAS No.	Surrogate Recoveries	MS	MSD	T55496-1	Limits
1868-53-7	Dibromofluoromethane	98%	100%	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	101%	99%	75-121%
2037-26-5	Toluene-D8	96%	97%	97%	87-119%
460-00-4	4-Bromofluorobenzene	91%	92%	91%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/21/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T57178

Sampling Date: 07/29/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: 22

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Accutest LabLink@45456 15:47 21-Sep-2010

Sample Summary

United Technology Corporation

Job No: T57178

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T57178-1	07/29/10	00:00		07/30/10	AQ	Trip Blank Water	TRIP BLANK
T57178-2	07/29/10	12:05		07/30/10	AQ	Ground Water	MW60
T57178-3	07/29/10	12:40		07/30/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T57178
Site:	XDD/UT Collierville/031091	**Report Date**	8/11/2010 9:11:59 AM

2 Sample(s), 1 Trip Blank(s) were collected on 07/29/2010 and were received at Accutest on 07/30/2010 properly preserved, at 5.1 Deg. C and intact. These Samples received an Accutest job number of T57178. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE57

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T57482-1MS, T57482-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Methylene chloride, Carbon disulfide are outside control limits.
- Matrix Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, cis-1,2-Dichloroethylene, Methylene chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, Methylene chloride are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Carbon tetrachloride, Styrene are outside control limits for sample T57482-1MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T57178-1	**Date Sampled:**	07/29/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0000953.D	1	08/05/10	MH	n/a	n/a	VE57
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T57178-1	**Date Sampled:**	07/29/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	92%		75-121%
2037-26-5	Toluene-D8	98%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T57178-2	**Date Sampled:**	07/29/10
Matrix:	AQ - Ground Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0000954.D	1	08/05/10	MH	n/a	n/a	VE57
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	3.5	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T57178-2	**Date Sampled:**	07/29/10
Matrix:	AQ - Ground Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	96%		87-119%
460-00-4	4-Bromofluorobenzene	96%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T57178-3	**Date Sampled:**	07/29/10
Matrix:	AQ - Ground Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0000955.D	1	08/05/10	MH	n/a	n/a	VE57
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T57178-3	**Date Sampled:**	07/29/10
Matrix:	AQ - Ground Water	**Date Received:**	07/30/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	98%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T57178

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark V. Allen E-mail: mallen@sasenvironmental.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFrank Connell Jr Phone #: 330 603 2441

Project Information

Project Name: UT Collierville
Street: 97 S. Byhala Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #: Bill to KDD-LLC
Project Manager: Mark V. Allen

Billing Information (If different from Report to)
Company Name: KDD-LLC
Street Address: 22 Marin Way Unit 3
City: Stratham State: NH Zip: 03885
Attention: Bruce Cliff

Requested Analyses: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	TRIP BLANK	LAB	—		WW	2	2												X	
2	MW 60	7-29-10	1205	JFO	GW	3	3												X	
3	MW 62	7-29-10	1240	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email Results to JFO121@aol.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
[signature]	7-29-10 / 1500	1 [signature]	2 FED EX	7-29-10 / 1500	2 [signature] 1635 AC 7-30-10
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp 5.1/4.6C

4.1

4

T57178: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T57178 Client: SAS ENVIRONMENTAL INC Date/Time Received: 7-30-10 1035

# of Coolers Received: 1 Thermometer #: ID 110 Temperature Adjustment Factor: -0.5 C

Cooler Temps: #1: 5.1/4.6 C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8709939546 78

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: 7-30-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: 7/30/10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

T57178: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T57178 DATE/TIME RECEIVED: 7-30-10 1035

CLIENT: SAS ENVIRONMENTAL INC INITIALS: AC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	TRIP BLANK	6-2-10 –	W	40ML	1-2	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW 60	7-29-10 1205			1-3		1 (2) 3 4 5 6 7 8	<2	>12
1	3	MW 62	1240					1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

AC 7-30-10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

T57178: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE57-MB	E0000930.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	5.3	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE57-MB	E0000930.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Blank Spike Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE57-BS	E0000929.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	131	105	62-124
71-43-2	Benzene	25	26.4	106	76-118
75-27-4	Bromodichloromethane	25	23.4	94	68-107
75-25-2	Bromoform	25	21.1	84	64-103
108-90-7	Chlorobenzene	25	23.8	95	74-111
75-00-3	Chloroethane	25	25.1	100	75-135
67-66-3	Chloroform	25	25.2	101	75-117
75-15-0	Carbon disulfide	25	33.1	132* [a]	57-126
56-23-5	Carbon tetrachloride	25	28.6	114	75-125
75-34-3	1,1-Dichloroethane	25	27.0	108	76-121
75-35-4	1,1-Dichloroethylene	25	31.3	125	71-128
107-06-2	1,2-Dichloroethane	25	24.3	97	70-111
78-87-5	1,2-Dichloropropane	25	24.9	100	71-113
124-48-1	Dibromochloromethane	25	24.1	96	69-104
156-59-2	cis-1,2-Dichloroethylene	25	27.4	110	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.2	101	71-111
156-60-5	trans-1,2-Dichloroethylene	25	28.1	112	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	75-111
100-41-4	Ethylbenzene	25	24.8	99	75-112
591-78-6	2-Hexanone	125	117	94	60-113
108-10-1	4-Methyl-2-pentanone	125	116	93	63-115
74-83-9	Methyl bromide	25	24.6	98	59-132
74-87-3	Methyl chloride	25	27.2	109	56-150
75-09-2	Methylene chloride	25	33.1	132* [b]	70-113
78-93-3	Methyl ethyl ketone	125	121	97	62-117
100-42-5	Styrene	25	23.1	92	66-100
71-55-6	1,1,1-Trichloroethane	25	28.0	112	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.2	89	67-110
79-00-5	1,1,2-Trichloroethane	25	22.9	92	69-107
127-18-4	Tetrachloroethylene	25	27.1	108	77-120
108-88-3	Toluene	25	25.8	103	77-114
79-01-6	Trichloroethylene	25	27.0	108	74-117
75-01-4	Vinyl chloride	25	26.8	107	64-121
1330-20-7	Xylene (total)	75	72.9	97	75-111

Blank Spike Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE57-BS	E0000929.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	75-121%
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.
(b) Outside control limits biased high.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T57482-1MS	E0000944.D	1	08/05/10	MH	n/a	n/a	VE57
T57482-1MSD	E0000945.D	1	08/05/10	MH	n/a	n/a	VE57
T57482-1	E0000943.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Compound	T57482-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	141	113	145	116	3	62-124/21
71-43-2	Benzene	2.0 U		25	27.4	110	25.4	102	8	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	23.3	93	21.3	85	9	68-107/12
75-25-2	Bromoform	2.0 U		25	19.1	76	17.7	71	8	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	24.2	97	22.5	90	7	74-111/11
75-00-3	Chloroethane	2.0 U		25	26.3	105	24.1	96	9	75-135/15
67-66-3	Chloroform	2.0 U		25	25.9	104	24.3	97	6	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	25.8	103	22.7	91	13	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	29.0	116	24.7	99	16*	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	27.8	111	25.7	103	8	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	31.2	125	29.1	116	7	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	25.3	101	24.4	98	4	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	25.7	103	23.7	95	8	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	22.1	88	20.5	82	8	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	28.5	114*	26.2	105	8	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	23.2	93	20.8	83	11	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	29.0	116	26.7	107	8	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	24.1	96	22.2	89	8	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	25.2	101	23.6	94	7	75-112/12
591-78-6	2-Hexanone	10 U		125	165	132*	167	134*	1	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	159	127*	161	129*	1	63-115/21
74-83-9	Methyl bromide	2.0 U		25	24.8	99	22.3	89	11	59-132/15
74-87-3	Methyl chloride	2.0 U		25	28.5	114	26.5	106	7	56-150/17
75-09-2	Methylene chloride	5.0 U		25	29.2	117*	29.2	117*	0	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	139	111	146	117	5	62-117/21
100-42-5	Styrene	2.0 U		25	23.2	93	20.2	81	14*	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	29.3	117	26.2	105	11	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	24.1	96	23.7	95	2	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	23.8	95	23.0	92	3	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	27.9	112	27.0	108	3	77-120/13
108-88-3	Toluene	2.0 U		25	26.3	105	24.5	98	7	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	27.9	112	26.1	104	7	74-117/12
75-01-4	Vinyl chloride	2.0 U		25	27.6	110	24.5	98	12	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	74.5	99	68.9	92	8	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T57178
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T57482-1MS	E0000944.D	1	08/05/10	MH	n/a	n/a	VE57
T57482-1MSD	E0000945.D	1	08/05/10	MH	n/a	n/a	VE57
T57482-1	E0000943.D	1	08/05/10	MH	n/a	n/a	VE57

The QC reported here applies to the following samples: **Method:** SW846 8260B

T57178-1, T57178-2, T57178-3

CAS No.	Surrogate Recoveries	MS	MSD	T57482-1	Limits
1868-53-7	Dibromofluoromethane	96%	94%	93%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	93%	75-121%
2037-26-5	Toluene-D8	98%	98%	98%	87-119%
460-00-4	4-Bromofluorobenzene	94%	96%	97%	80-133%

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/21/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T58569

Sampling Date: 08/23/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@45456 15:48 21-Sep-2010

Sample Summary

United Technology Corporation

Job No: T58569

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T58569-1	08/23/10	12:15		08/24/10	AQ	Ground Water	MW60
T58569-2	08/23/10	12:45		08/24/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T58569
Site:	XDD/UT Collierville/031091	**Report Date**	8/30/2010 10:03:02 AM

2 Sample(s) were collected on 08/23/2010 and were received at Accutest on 08/24/2010 properly preserved, at 3.1 Deg. C and intact. These Samples received an Accutest job number of T58569. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE90

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T58614-2MS, T58614-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Styrene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Methyl ethyl ketone are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Carbon tetrachloride are outside control limits for sample T58614-2MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T58569-1	**Date Sampled:**	08/23/10
Matrix:	AQ - Ground Water	**Date Received:**	08/24/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0001431.D	1	08/25/10	MH	n/a	n/a	VE90
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T58569-1	**Date Sampled:**	08/23/10
Matrix:	AQ - Ground Water	**Date Received:**	08/24/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	100%		87-119%
460-00-4	4-Bromofluorobenzene	98%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T58569-2	**Date Sampled:**	08/23/10
Matrix:	AQ - Ground Water	**Date Received:**	08/24/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0001432.D	1	08/25/10	MH	n/a	n/a	VE90
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T58569-2	**Date Sampled:**	08/23/10
Matrix:	AQ - Ground Water	**Date Received:**	08/24/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-122%
17060-07-0	1,2-Dichloroethane-D4	91%		75-121%
2037-26-5	Toluene-D8	97%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T58569

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1270 S. Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark V. Allen E-mail: mallen@sasenvironmental.com
Phone #: 330 666 1546 Fax #:
Sampler(s) Name(s): JFrank OConnell Jr Phone #:

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: Bruce Cliff

Billing Information (If different from Report to)
Company Name: XDD LLC
Street Address: 22 Marin Way Unit 3
City: Stratham State: NH Zip: 03885
Attention: Bruce Cliff

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	8-23-10	1215	JFO	GW	3	3												X	
2	MW 62	8-23-10	1245	JFO	GW	3	3												X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [ ] Standard
- [x] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date: SG/JFO 8-23-10

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Email results to JFO121@aol.com
Rush Day TAT
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	8-23-10/1350	1 [signature]	2 FedEx	8-23-10/1350	2
3 FedEx	8-24-10 0910	3 ALQC [signature]	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☑ Cooler Temp. 3.1 °C

4.1

4

T58569: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T58569 Client: SAS Environmental, Inc. Date/Time Received: 8-24-10 0910

# of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0

Cooler Temperatures (initial/adjusted): #1: 3.1°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____
Number of 5035 kits? ____
Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Daniel Hudlestun 8-24-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 8-24-10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

T58569: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T58569 DATE/TIME RECEIVED: 8-24-10 0910

CLIENT: SAS Environmental, Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW60	8-23-10 1215	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW62	8-23-10 1245	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

DRA 8/24/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T58569: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE90-MB	E0001422.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	0.47	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE90-MB	E0001422.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Blank Spike Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE90-BS	E0001421.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	115	92	62-124
71-43-2	Benzene	25	24.3	97	76-118
75-27-4	Bromodichloromethane	25	23.9	96	68-107
75-25-2	Bromoform	25	21.9	88	64-103
108-90-7	Chlorobenzene	25	25.7	103	74-111
75-00-3	Chloroethane	25	24.0	96	75-135
67-66-3	Chloroform	25	24.3	97	75-117
75-15-0	Carbon disulfide	25	22.9	92	57-126
56-23-5	Carbon tetrachloride	25	23.7	95	75-125
75-34-3	1,1-Dichloroethane	25	24.0	96	76-121
75-35-4	1,1-Dichloroethylene	25	24.9	100	71-128
107-06-2	1,2-Dichloroethane	25	23.7	95	70-111
78-87-5	1,2-Dichloropropane	25	25.4	102	71-113
124-48-1	Dibromochloromethane	25	24.4	98	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.4	94	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	75-111
100-41-4	Ethylbenzene	25	26.0	104	75-112
591-78-6	2-Hexanone	125	129	103	60-113
108-10-1	4-Methyl-2-pentanone	125	127	102	63-115
74-83-9	Methyl bromide	25	23.9	96	59-132
74-87-3	Methyl chloride	25	26.2	105	56-150
75-09-2	Methylene chloride	25	25.0	100	70-113
78-93-3	Methyl ethyl ketone	125	118	94	62-117
100-42-5	Styrene	25	25.4	102* [a]	66-100
71-55-6	1,1,1-Trichloroethane	25	23.7	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	67-110
79-00-5	1,1,2-Trichloroethane	25	25.2	101	69-107
127-18-4	Tetrachloroethylene	25	26.3	105	77-120
108-88-3	Toluene	25	25.7	103	77-114
79-01-6	Trichloroethylene	25	25.7	103	74-117
75-01-4	Vinyl chloride	25	25.3	101	64-121
1330-20-7	Xylene (total)	75	78.6	105	75-111

Blank Spike Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE90-BS	E0001421.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T58614-2MS	E0001428.D	1	08/25/10	MH	n/a	n/a	VE90
T58614-2MSD	E0001429.D	1	08/25/10	MH	n/a	n/a	VE90
T58614-2	E0001427.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Compound	T58614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	128	102	135	108	5	62-124/21
71-43-2	Benzene	2.0 U		25	24.8	99	23.8	95	4	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	24.5	98	21.8	87	12	68-107/12
75-25-2	Bromoform	2.0 U		25	21.5	86	20.3	81	6	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	26.4	106	25.2	101	5	74-111/11
75-00-3	Chloroethane	2.0 U		25	24.2	97	22.9	92	6	75-135/15
67-66-3	Chloroform	2.0 U		25	24.5	98	23.7	95	3	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	18.4	74	16.1	64	13	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	23.9	96	20.9	84	13*	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	25.1	100	23.7	95	6	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	25.7	103	24.5	98	5	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	24.6	98	23.6	94	4	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	25.7	103	24.7	99	4	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	24.5	98	22.6	90	8	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	25.4	102	24.1	96	5	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	25.1	100	22.4	90	11	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	24.4	98	22.4	90	9	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	24.5	98	23.0	92	6	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	26.8	107	25.3	101	6	75-112/12
591-78-6	2-Hexanone	10 U		125	189	151*	202	162*	7	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	179	143*	186	149*	4	63-115/21
74-83-9	Methyl bromide	2.0 U		25	24.7	99	23.4	94	5	59-132/15
74-87-3	Methyl chloride	2.0 U		25	26.8	107	24.5	98	9	56-150/17
75-09-2	Methylene chloride	5.0 U		25	23.5	94	22.7	91	3	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	141	113	148	118*	5	62-117/21
100-42-5	Styrene	2.0 U		25	25.7	103*	23.1	92	11	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	23.8	95	22.7	91	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	29.7	119*	30.6	122*	3	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	27.1	108*	26.9	108*	1	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	27.7	111	26.6	106	4	77-120/13
108-88-3	Toluene	2.0 U		25	26.4	106	25.0	100	5	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	27.1	108	26.4	106	3	74-117/12
75-01-4	Vinyl chloride	2.0 U		25	25.8	103	23.5	94	9	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	80.3	107	75.9	101	6	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T58569
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T58614-2MS	E0001428.D	1	08/25/10	MH	n/a	n/a	VE90
T58614-2MSD	E0001429.D	1	08/25/10	MH	n/a	n/a	VE90
T58614-2	E0001427.D	1	08/25/10	MH	n/a	n/a	VE90

The QC reported here applies to the following samples: **Method:** SW846 8260B

T58569-1, T58569-2

CAS No.	Surrogate Recoveries	MS	MSD	T58614-2	Limits
1868-53-7	Dibromofluoromethane	97%	96%	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	91%	90%	75-121%
2037-26-5	Toluene-D8	101%	99%	96%	87-119%
460-00-4	4-Bromofluorobenzene	95%	98%	94%	80-133%

Gulf Coast ACCUTEST LABORATORIES

12/01/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T59483

Sampling Date: 09/07/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@46687 15:12 01-Dec-2010

Sample Summary

United Technology Corporation

Job No: T59483

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T59483-1	09/07/10	10:30		09/08/10	AQ	Effluent	WP2 EFF
T59483-2	09/07/10	10:40		09/08/10	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T59483
Site:	XDD/UT Collierville/031091	**Report Date**	9/21/2010 8:22:24 AM

2 Sample(s) were collected on 09/07/2010 and were received at Accutest on 09/08/2010 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T59483. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX694

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T59488-4MS, T59488-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, Bromoform are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T59483-1	**Date Sampled:**	09/07/10
Matrix:	AQ - Effluent	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0064913.D	1	09/10/10	NM	n/a	n/a	VX694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T59483-1	**Date Sampled:**	09/07/10
Matrix:	AQ - Effluent	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	92%		75-121%
2037-26-5	Toluene-D8	96%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T59483-2	**Date Sampled:**	09/07/10
Matrix:	AQ - Influent	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0064914.D	1	09/10/10	NM	n/a	n/a	VX694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	31.5	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T59483-2	**Date Sampled:**	09/07/10
Matrix:	AQ - Influent	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T59483

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: mallen@SASENVIRONMENTAL.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): FRANK O'Connell JR Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYNUM RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: BILL TO XDD LLC
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	9-7-10	1030	JFO	GW	3	3												X	
2	WP2 INF	9-7-10	1040	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOGIN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@AOL.COM
BILL to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	9-7-10 / 1350	1 FEDEX	2 FEDEX	9-7-10 / 1350	2
Relinquished by Sampler: 3	Date Time: 9-8-10 9:45	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

T59483: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T59483 Client: SAS Environmental Date/Time Received: 9-8-10 945

# of Coolers Received: 1 Thermometer #: TR-Gunny Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 1.0°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 9-8-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 9-8-10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

T59483: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T59483 DATE/TIME RECEIVED: 9-8-10 945

CLIENT: SAS Environmental INITIALS: CC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 Eff	9-7-10 1030	ww	40ml	F3	M	1 2 3 4 5 6 7 8	<2	>12
1	2	WP2 INF	" 1070	ww	"	"	"	1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

CC 9/8/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T59483: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX694-MB	X0064898.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX694-MB	X0064898.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Blank Spike Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX694-BS	X0064896.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	136	109	62-124
71-43-2	Benzene	25	24.9	100	76-118
75-27-4	Bromodichloromethane	25	24.8	99	68-107
75-25-2	Bromoform	25	24.6	98	64-103
108-90-7	Chlorobenzene	25	25.0	100	74-111
75-00-3	Chloroethane	25	26.0	104	75-135
67-66-3	Chloroform	25	25.5	102	75-117
75-15-0	Carbon disulfide	25	26.2	105	57-126
56-23-5	Carbon tetrachloride	25	28.7	115	75-125
75-34-3	1,1-Dichloroethane	25	25.7	103	76-121
75-35-4	1,1-Dichloroethylene	25	28.8	115	71-128
107-06-2	1,2-Dichloroethane	25	24.1	96	70-111
78-87-5	1,2-Dichloropropane	25	24.7	99	71-113
124-48-1	Dibromochloromethane	25	24.9	100	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.6	106	68-113
10061-01-5	cis-1,3-Dichloropropene	25	26.2	105	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.2	101	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	75-111
100-41-4	Ethylbenzene	25	25.2	101	75-112
591-78-6	2-Hexanone	125	118	94	60-113
108-10-1	4-Methyl-2-pentanone	125	122	98	63-115
74-83-9	Methyl bromide	25	25.7	103	59-132
74-87-3	Methyl chloride	25	27.8	111	56-150
75-09-2	Methylene chloride	25	22.6	90	70-113
78-93-3	Methyl ethyl ketone	125	122	98	62-117
100-42-5	Styrene	25	25.0	100	66-100
71-55-6	1,1,1-Trichloroethane	25	26.8	107	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	24.1	96	67-110
79-00-5	1,1,2-Trichloroethane	25	24.4	98	69-107
127-18-4	Tetrachloroethylene	25	26.7	107	77-120
108-88-3	Toluene	25	24.6	98	77-114
79-01-6	Trichloroethylene	25	26.1	104	74-117
75-01-4	Vinyl chloride	25	28.5	114	64-121
1330-20-7	Xylene (total)	75	75.8	101	75-111

Blank Spike Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX694-BS	X0064896.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	75-121%
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T59488-4MS	X0064900.D	1	09/10/10	NM	n/a	n/a	VX694
T59488-4MSD	X0064901.D	1	09/10/10	NM	n/a	n/a	VX694
T59488-4	X0064899.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Compound	T59488-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	134	107	130	104	3	62-124/21
71-43-2	Benzene	2.0 U		25	24.0	96	23.6	94	2	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	24.3	97	23.9	96	2	68-107/12
75-25-2	Bromoform	2.0 U		25	26.2	105*	25.1	100	4	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	24.4	98	23.6	94	3	74-111/11
75-00-3	Chloroethane	2.0 U		25	25.4	102	25.2	101	1	75-135/15
67-66-3	Chloroform	2.0 U		25	24.3	97	23.7	95	3	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	26.5	106	23.8	95	11	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	27.3	109	25.9	104	5	75-125/12
75-34-3	1,1-Dichloroethane	2.0 U		25	24.8	99	24.1	96	3	76-121/13
75-35-4	1,1-Dichloroethylene	2.0 U		25	27.4	110	25.5	102	7	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	24.4	98	23.9	96	2	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	24.2	97	23.9	96	1	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	25.0	100	24.0	96	4	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	26.1	104	26.3	105	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	24.6	98	24.1	96	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	23.9	96	23.0	92	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	27.2	109	26.6	106	2	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	24.7	99	23.6	94	5	75-112/12
591-78-6	2-Hexanone	10 U		125	180	144*	170	136*	6	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	172	138*	163	130*	5	63-115/21
74-83-9	Methyl bromide	2.0 U		25	25.0	100	25.4	102	2	59-132/15
74-87-3	Methyl chloride	2.0 U		25	26.4	106	26.4	106	0	56-150/17
75-09-2	Methylene chloride	5.0 U		25	21.8	87	21.2	85	3	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	137	110	130	104	5	62-117/21
100-42-5	Styrene	2.0 U		25	24.6	98	24.0	96	2	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	25.8	103	24.7	99	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	26.4	106	26.1	104	1	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	25.0	100	24.2	97	3	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	25.8	103	23.9	96	8	77-120/13
108-88-3	Toluene	2.0 U		25	24.2	97	23.3	93	4	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	25.6	102	24.1	96	6	74-117/12
75-01-4	Vinyl chloride	2.0 U		25	27.1	108	25.7	103	5	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	74.0	99	71.5	95	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T59483
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T59488-4MS	X0064900.D	1	09/10/10	NM	n/a	n/a	VX694
T59488-4MSD	X0064901.D	1	09/10/10	NM	n/a	n/a	VX694
T59488-4	X0064899.D	1	09/10/10	NM	n/a	n/a	VX694

The QC reported here applies to the following samples: **Method:** SW846 8260B

T59483-1, T59483-2

CAS No.	Surrogate Recoveries	MS	MSD	T59488-4	Limits
1868-53-7	Dibromofluoromethane	94%	95%	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	97%	75-121%
2037-26-5	Toluene-D8	97%	96%	94%	87-119%
460-00-4	4-Bromofluorobenzene	92%	96%	94%	80-133%

Gulf Coast ACCUTEST LABORATORIES

12/01/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T60474

Sampling Date: 09/22/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **30**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@46687 15:01 01-Dec-2010

Sample Summary

United Technology Corporation

Job No: T60474

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T60474-1	09/22/10	15:05		09/23/10	AQ	Ground Water	MW62
T60474-2	09/22/10	14:25		09/23/10	AQ	Ground Water	MW60
T60474-3	09/22/10	14:28		09/23/10	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T60474
Site:	XDD/UT Collierville/031091	**Report Date**	10/4/2010 1:46:32 PM

3 Sample(s) were collected on 09/22/2010 and were received at Accutest on 09/23/2010 properly preserved, at 3.3 Deg. C and intact. These Samples received an Accutest job number of T60474. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE145

- Sample(s) T60585-1MS, T60585-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Styrene are outside control limits.
- Sample(s) T60474-2 have surrogates outside control limits. Outside control limits biased high. Only ND results are reported for all compounds associated with this surrogate.

Matrix SO **Batch ID:** VE145

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP12966

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T60258-1DUP, T60258-1MS, T60258-1MSD, T60258-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP12966-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T60474-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002084.D	1	09/28/10	MH	n/a	n/a	VE145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T60474-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	93%		87-119%
460-00-4	4-Bromofluorobenzene	119%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T60474-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5130
(2) Prep QC Batch: MP12966

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T60474-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002085.D	1	09/28/10	MH	n/a	n/a	VE145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T60474-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		79-122%
17060-07-0	1,2-Dichloroethane-D4	86%		75-121%
2037-26-5	Toluene-D8	120% [a]		87-119%
460-00-4	4-Bromofluorobenzene	106%		80-133%

(a) Outside control limits biased high. Only ND results are reported for all compounds associated with this surrogate.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T60474-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5130
(2) Prep QC Batch: MP12966

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T60474-3	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002086.D	1	09/28/10	MH	n/a	n/a	VE145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T60474-3	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T60474

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. Cleve Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark V. Allen E-mail: m.allen@sasenvironmental.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): Frank O'Connell Jr. Phone #: 330 603-2411

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: Mark V. Allen

Billing Information (if different from Report to)
Company Name: XDD-LLC
Street Address: 22 Marin Way Unit 3
City: Stratham State: NH Zip: 03885
Attention: Bruce Clift

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC8260	LEAD/ZINC/TOTAL CT	LAB USE ONLY
1	MW62	9-22-10	1505	JFO	GW	4	3			1									X	X	
2	MW60	9-22-10	1425	JFO	GW	4	3			1									X	X	
3	DUPLICATE	9-22-10	1428	JFO	GW	3	3												X		

JFO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email Results to JFO121@COL.COM
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-22-10/1655	1 FedEx	2 FedEx	9-22-10/1655	2 [signature]
3 FedEx	9-23-10 945	3 [signature]	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 3.3°C

Fed Ex Air Bill # 8731 7021 0632

T60474: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T60474 Client: SAS Environmental Date/Time Received: 9-23-10 945

# of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 3.3°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: 9-23-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: NRA 9/23/10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

SAMPLE RECEIPT LOG

JOB #: T60474 DATE/TIME RECEIVED: 9-23-10 945

CLIENT: SAS Environmental INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-62	9-22-10 1505	W	50	1	1-0	1 2 (3) 4 5 6 7 8	(<2) >12
	1	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	MW-60	1425		50	1	1-0	1 2 (3) 4 5 6 7 8	(<2) >12
	2	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	3	Duplicate	1428		40	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

SC 9-23-10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T60474: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-MB	E0002076.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	4.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	ug/kg	
75-25-2	Bromoform	ND	4.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	ug/kg	
75-00-3	Chloroethane	ND	4.0	ug/kg	
67-66-3	Chloroform	ND	4.0	ug/kg	
75-15-0	Carbon disulfide	ND	4.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
591-78-6	2-Hexanone	ND	40	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	40	ug/kg	
74-83-9	Methyl bromide	ND	4.0	ug/kg	
74-87-3	Methyl chloride	ND	4.0	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	40	ug/kg	
100-42-5	Styrene	ND	4.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.0	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
79-01-6	Trichloroethylene	ND	4.0	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	ug/kg	
1330-20-7	Xylene (total)	ND	12	ug/kg	

Method Blank Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-MB	E0002076.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	70-121%
2037-26-5	Toluene-D8	105%	76-132%
460-00-4	4-Bromofluorobenzene	118%	73-165%
17060-07-0	1,2-Dichloroethane-D4	95%	57-122%

Blank Spike Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-BS	E0002075.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	123	98	62-124
71-43-2	Benzene	25	26.7	107	76-118
75-27-4	Bromodichloromethane	25	24.3	97	68-107
75-25-2	Bromoform	25	22.8	91	64-103
108-90-7	Chlorobenzene	25	25.9	104	74-111
75-00-3	Chloroethane	25	25.8	103	75-135
67-66-3	Chloroform	25	25.4	102	75-117
75-15-0	Carbon disulfide	25	27.6	110	57-126
56-23-5	Carbon tetrachloride	25	26.5	106	75-125
75-34-3	1,1-Dichloroethane	25	25.4	102	76-121
75-35-4	1,1-Dichloroethylene	25	27.1	108	71-128
107-06-2	1,2-Dichloroethane	25	25.0	100	70-111
78-87-5	1,2-Dichloropropane	25	25.4	102	71-113
124-48-1	Dibromochloromethane	25	24.0	96	69-104
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	68-113
10061-01-5	cis-1,3-Dichloropropene	25	26.3	105	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.0	100	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.4	98	75-111
100-41-4	Ethylbenzene	25	26.4	106	75-112
591-78-6	2-Hexanone	125	115	92	60-113
108-10-1	4-Methyl-2-pentanone	125	123	98	63-115
74-83-9	Methyl bromide	25	25.2	101	59-132
74-87-3	Methyl chloride	25	28.0	112	56-150
75-09-2	Methylene chloride	25	25.8	103	70-113
78-93-3	Methyl ethyl ketone	125	121	97	62-117
100-42-5	Styrene	25	26.5	106* [a]	66-100
71-55-6	1,1,1-Trichloroethane	25	27.2	109	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	27.7	111* [a]	67-110
79-00-5	1,1,2-Trichloroethane	25	23.4	94	69-107
127-18-4	Tetrachloroethylene	25	25.4	102	77-120
108-88-3	Toluene	25	24.2	97	77-114
79-01-6	Trichloroethylene	25	27.1	108	74-117
75-01-4	Vinyl chloride	25	28.6	114	64-121
1330-20-7	Xylene (total)	75	80.2	107	75-111

Blank Spike Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-BS	E0002075.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	117%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T60585-1MS	E0002089.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1MSD	E0002090.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1	E0002088.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Compound	T60585-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	96.2	77	109	87	12	62-124/21
71-43-2	Benzene	ND		25	25.8	103	25.7	103	0	76-118/16
75-27-4	Bromodichloromethane	ND		25	21.8	87	22.5	90	3	68-107/12
75-25-2	Bromoform	ND		25	19.0	76	18.4	74	3	64-103/14
108-90-7	Chlorobenzene	ND		25	26.3	105	25.3	101	4	74-111/11
75-00-3	Chloroethane	ND		25	24.0	96	24.9	100	4	75-135/15
67-66-3	Chloroform	ND		25	23.4	94	24.4	98	4	75-117/12
75-15-0	Carbon disulfide	ND		25	18.5	74	18.9	76	2	57-126/13
56-23-5	Carbon tetrachloride	ND		25	22.9	92	22.2	89	3	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	23.9	96	23.6	94	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	22.5	90	23.5	94	4	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	22.4	90	24.1	96	7	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.5	102	27.0	108	6	71-113/12
124-48-1	Dibromochloromethane	ND		25	23.1	92	21.3	85	8	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.3	101	26.7	107	5	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	25.0	100	24.6	98	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.7	91	23.3	93	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.9	100	23.6	94	5	75-111/12
100-41-4	Ethylbenzene	ND		25	26.5	106	26.3	105	1	75-112/12
591-78-6	2-Hexanone	ND		125	123	98	127	102	3	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	120	96	130	104	8	63-115/21
74-83-9	Methyl bromide	ND		25	22.8	91	23.4	94	3	59-132/15
74-87-3	Methyl chloride	ND		25	25.2	101	26.4	106	5	56-150/17
75-09-2	Methylene chloride	ND		25	20.9	84	22.6	90	8	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	108	86	120	96	11	62-117/21
100-42-5	Styrene	ND		25	24.6	98	22.0	88	11	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	24.3	97	24.6	98	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.3	105	26.2	105	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.5	102	26.1	104	2	69-107/14
127-18-4	Tetrachloroethylene	ND		25	28.6	114	28.3	113	1	77-120/13
108-88-3	Toluene	ND		25	27.2	109	26.7	107	2	77-114/12
79-01-6	Trichloroethylene	ND		25	27.0	108	28.1	112	4	74-117/12
75-01-4	Vinyl chloride	ND		25	25.9	104	26.6	106	3	64-121/19
1330-20-7	Xylene (total)	ND		75	80.1	107	78.3	104	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T60474
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T60585-1MS	E0002089.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1MSD	E0002090.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1	E0002088.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60474-1, T60474-2, T60474-3

CAS No.	Surrogate Recoveries	MS	MSD	T60585-1	Limits
1868-53-7	Dibromofluoromethane	98%	106%	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	96%	99%	75-121%
2037-26-5	Toluene-D8	114%	115%	111%	87-119%
460-00-4	4-Bromofluorobenzene	109%	109%	110%	80-133%

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T60474
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27	-0.020	<10
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.58	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.76	<20

Associated samples MP12966: T60474-1, T60474-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T60474
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			09/28/10					09/28/10	
Metal	T60258-1 Original	DUP	RPD	QC Limits	T60258-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	395	400	98.8	80-120
Cobalt	anr								
Copper	anr								
Iron									
Lead	3.5	3.6	2.8	0-20	3.5	381	400	94.4	80-120
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	0.0	0.0	NC	0-20	0.0	387	400	96.8	80-120

Associated samples MP12966: T60474-1, T60474-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T60474
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	T60258-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	0.0	392	400	98.0	0.8	20
Cobalt	anr					
Copper	anr					
Iron						
Lead	3.5	378	400	93.6	0.8	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin	anr					
Titanium	anr					
Vanadium	anr					
Zinc	0.0	384	400	96.0	0.8	20

Associated samples MP12966: T60474-1, T60474-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T60474
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	394	400	98.5	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	372	400	93.0	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	386	400	96.5	80-120

Associated samples MP12966: T60474-1, T60474-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T60474
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	T60258-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	3.47	0.00	100.0(a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	0.00	7.04		0-10

Associated samples MP12966: T60474-1, T60474-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

12/03/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T60475

Sampling Date: 09/22/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **32**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-8) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Accutest LabLink@60465 20:27 03-Dec-2012

Sample Summary

United Technology Corporation

Job No: T60475

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T60475-1	09/22/10	11:25		09/23/10	AQ	Ground Water	MW4
T60475-2	09/22/10	12:20		09/23/10	AQ	Ground Water	MW10
T60475-3	09/22/10	13:10		09/23/10	AQ	Ground Water	MW31R

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T60475
Site:	XDD/UT Collierville/031091	**Report Date**	10/4/2010 1:47:47 PM

3 Sample(s),were collected on 09/22/2010 and were received at Accutest on 09/23/2010 properly preserved, at 3.3 Deg. C and intact. These Samples received an Accutest job number of T60475. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE145

- Sample(s) T60585-1MS, T60585-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Styrene are outside control limits.

Matrix SO **Batch ID:** VE145

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP12966

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T60258-1DUP, T60258-1MS, T60258-1MSD, T60258-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP12966-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: T60475
Account: United Technology Corporation
Project: XDD/UT Collierville/031091
Collected: 09/22/10

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
T60475-1	**MW4**					
1,1-Dichloroethylene		3.9	2.0		ug/l	SW846 8260B
cis-1,2-Dichloroethylene		3240	50		ug/l	SW846 8260B
trans-1,2-Dichloroethylene		22.1	2.0		ug/l	SW846 8260B
Trichloroethylene		3180	50		ug/l	SW846 8260B
Vinyl chloride		3.9	2.0		ug/l	SW846 8260B
Lead		16.0	3.0		ug/l	SW846 6010B
Zinc		5350	20		ug/l	SW846 6010B
T60475-2	**MW10**					
cis-1,2-Dichloroethylene		155	100		ug/l	SW846 8260B
Trichloroethylene		19400	1000		ug/l	SW846 8260B
Lead		3.3	3.0		ug/l	SW846 6010B
T60475-3	**MW31R**					
Trichloroethylene		3.6	2.0		ug/l	SW846 8260B
Lead		6.8	3.0		ug/l	SW846 6010B
Zinc		36.1	20		ug/l	SW846 6010B

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T60475-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002098.D	1	09/28/10	MH	n/a	n/a	VE145
Run #2	E0002095.D	25	09/28/10	MH	n/a	n/a	VE145

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	3.9	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3240 [a]	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	22.1	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3180 [a]	50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T60475-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	3.9	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	97%	75-121%
2037-26-5	Toluene-D8	97%	113%	87-119%
460-00-4	4-Bromofluorobenzene	119%	106%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T60475-1	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	16.0	3.0	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	5350	20	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5130
(2) Prep QC Batch: MP12966

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T60475-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002097.D	50	09/28/10	MH	n/a	n/a	VE145
Run #2	E0002096.D	500	09/28/10	MH	n/a	n/a	VE145

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	155	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	500	ug/l	
74-83-9	Methyl bromide	ND	100	ug/l	
74-87-3	Methyl chloride	ND	100	ug/l	
75-09-2	Methylene chloride	ND	250	ug/l	
78-93-3	Methyl ethyl ketone	ND	500	ug/l	
100-42-5	Styrene	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethylene	ND	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
79-01-6	Trichloroethylene	19400 [a]	1000	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T60475-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	97%	75-121%
2037-26-5	Toluene-D8	116%	111%	87-119%
460-00-4	4-Bromofluorobenzene	116%	107%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T60475-2	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	3.3	3.0	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5130
(2) Prep QC Batch: MP12966

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T60475-3	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0002087.D	1	09/28/10	MH	n/a	n/a	VE145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.6	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T60475-3	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-122%
17060-07-0	1,2-Dichloroethane-D4	95%		75-121%
2037-26-5	Toluene-D8	100%		87-119%
460-00-4	4-Bromofluorobenzene	102%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T60475-3	**Date Sampled:**	09/22/10
Matrix:	AQ - Ground Water	**Date Received:**	09/23/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.8	3.0	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	36.1	20	ug/l	1	09/28/10	09/28/10	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5130
(2) Prep QC Batch: MP12966

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T60475

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. Cleve-Mass Rd
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MARK@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFRANK O'Connell Jr Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. Byhalia Rd
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LEAD/ZINC	LAB USE ONLY
1	MW 4	9-22-10	1125	JFO	GW	4	3			1									X	X	
2	MW 10	9-22-10	1220	JFO	GW	4	3			1									X	X	
3	MW 31R	9-22-10	1310	JFO	GW	4	3			1									X	X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@acc.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-22-10/1655	1 FED EX	2 FEDEX	9-22-10/1655	2
3 FEDEX	9/23-10 945	3 [signature]	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

FEDEX Air Bill # 873170210632

T60475: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T60475 Client: SAS Environmental Date/Time Received: 9.23-10 94 K

# of Coolers Received: 1 Thermometer #: IR-GUN04 Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 3.3°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 9.23-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 9/23/10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

T60475: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T60475 DATE/TIME RECEIVED: 9.23-10 945

CLIENT: SAS Environmental INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-4	9.22-10 1125	W	500	1	1-N	1 2 (3) 4 5 6 7 8	(<2) >12
	1	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	MW-10	1220		500	1	1N	1 2 (3) 4 5 6 7 8	(<2) >12
	2	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	3	MW 31 R	1310		500	1	1N	1 2 (3) 4 5 6 7 8	(<2) >12
	3	"			40	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

5.1

5

T60475: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-MB	E0002076.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
71-43-2	Benzene	ND	4.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	ug/kg	
75-25-2	Bromoform	ND	4.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	ug/kg	
75-00-3	Chloroethane	ND	4.0	ug/kg	
67-66-3	Chloroform	ND	4.0	ug/kg	
75-15-0	Carbon disulfide	ND	4.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
591-78-6	2-Hexanone	ND	40	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	40	ug/kg	
74-83-9	Methyl bromide	ND	4.0	ug/kg	
74-87-3	Methyl chloride	ND	4.0	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	40	ug/kg	
100-42-5	Styrene	ND	4.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.0	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
79-01-6	Trichloroethylene	ND	4.0	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	ug/kg	
1330-20-7	Xylene (total)	ND	12	ug/kg	

Method Blank Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-MB	E0002076.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	70-121%
2037-26-5	Toluene-D8	105%	76-132%
460-00-4	4-Bromofluorobenzene	118%	73-165%
17060-07-0	1,2-Dichloroethane-D4	95%	57-122%

Blank Spike Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-BS	E0002075.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	123	98	62-124
71-43-2	Benzene	25	26.7	107	76-118
75-27-4	Bromodichloromethane	25	24.3	97	68-107
75-25-2	Bromoform	25	22.8	91	64-103
108-90-7	Chlorobenzene	25	25.9	104	74-111
75-00-3	Chloroethane	25	25.8	103	75-135
67-66-3	Chloroform	25	25.4	102	75-117
75-15-0	Carbon disulfide	25	27.6	110	57-126
56-23-5	Carbon tetrachloride	25	26.5	106	75-125
75-34-3	1,1-Dichloroethane	25	25.4	102	76-121
75-35-4	1,1-Dichloroethylene	25	27.1	108	71-128
107-06-2	1,2-Dichloroethane	25	25.0	100	70-111
78-87-5	1,2-Dichloropropane	25	25.4	102	71-113
124-48-1	Dibromochloromethane	25	24.0	96	69-104
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	68-113
10061-01-5	cis-1,3-Dichloropropene	25	26.3	105	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.0	100	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.4	98	75-111
100-41-4	Ethylbenzene	25	26.4	106	75-112
591-78-6	2-Hexanone	125	115	92	60-113
108-10-1	4-Methyl-2-pentanone	125	123	98	63-115
74-83-9	Methyl bromide	25	25.2	101	59-132
74-87-3	Methyl chloride	25	28.0	112	56-150
75-09-2	Methylene chloride	25	25.8	103	70-113
78-93-3	Methyl ethyl ketone	125	121	97	62-117
100-42-5	Styrene	25	26.5	106* [a]	66-100
71-55-6	1,1,1-Trichloroethane	25	27.2	109	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	27.7	111* [a]	67-110
79-00-5	1,1,2-Trichloroethane	25	23.4	94	69-107
127-18-4	Tetrachloroethylene	25	25.4	102	77-120
108-88-3	Toluene	25	24.2	97	77-114
79-01-6	Trichloroethylene	25	27.1	108	74-117
75-01-4	Vinyl chloride	25	28.6	114	64-121
1330-20-7	Xylene (total)	75	80.2	107	75-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE145-BS	E0002075.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	117%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T60585-1MS	E0002089.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1MSD	E0002090.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1	E0002088.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Compound	T60585-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	96.2	77	109	87	12	62-124/21
71-43-2	Benzene	ND		25	25.8	103	25.7	103	0	76-118/16
75-27-4	Bromodichloromethane	ND		25	21.8	87	22.5	90	3	68-107/12
75-25-2	Bromoform	ND		25	19.0	76	18.4	74	3	64-103/14
108-90-7	Chlorobenzene	ND		25	26.3	105	25.3	101	4	74-111/11
75-00-3	Chloroethane	ND		25	24.0	96	24.9	100	4	75-135/15
67-66-3	Chloroform	ND		25	23.4	94	24.4	98	4	75-117/12
75-15-0	Carbon disulfide	ND		25	18.5	74	18.9	76	2	57-126/13
56-23-5	Carbon tetrachloride	ND		25	22.9	92	22.2	89	3	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	23.9	96	23.6	94	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	22.5	90	23.5	94	4	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	22.4	90	24.1	96	7	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.5	102	27.0	108	6	71-113/12
124-48-1	Dibromochloromethane	ND		25	23.1	92	21.3	85	8	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.3	101	26.7	107	5	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	25.0	100	24.6	98	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.7	91	23.3	93	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.9	100	23.6	94	5	75-111/12
100-41-4	Ethylbenzene	ND		25	26.5	106	26.3	105	1	75-112/12
591-78-6	2-Hexanone	ND		125	123	98	127	102	3	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	120	96	130	104	8	63-115/21
74-83-9	Methyl bromide	ND		25	22.8	91	23.4	94	3	59-132/15
74-87-3	Methyl chloride	ND		25	25.2	101	26.4	106	5	56-150/17
75-09-2	Methylene chloride	ND		25	20.9	84	22.6	90	8	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	108	86	120	96	11	62-117/21
100-42-5	Styrene	ND		25	24.6	98	22.0	88	11	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	24.3	97	24.6	98	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.3	105	26.2	105	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.5	102	26.1	104	2	69-107/14
127-18-4	Tetrachloroethylene	ND		25	28.6	114	28.3	113	1	77-120/13
108-88-3	Toluene	ND		25	27.2	109	26.7	107	2	77-114/12
79-01-6	Trichloroethylene	ND		25	27.0	108	28.1	112	4	74-117/12
75-01-4	Vinyl chloride	ND		25	25.9	104	26.6	106	3	64-121/19
1330-20-7	Xylene (total)	ND		75	80.1	107	78.3	104	2	75-111/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T60475
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T60585-1MS	E0002089.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1MSD	E0002090.D	1	09/28/10	MH	n/a	n/a	VE145
T60585-1	E0002088.D	1	09/28/10	MH	n/a	n/a	VE145

The QC reported here applies to the following samples: **Method:** SW846 8260B

T60475-1, T60475-2, T60475-3

CAS No.	Surrogate Recoveries	MS	MSD	T60585-1	Limits
1868-53-7	Dibromofluoromethane	98%	106%	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	96%	99%	75-121%
2037-26-5	Toluene-D8	114%	115%	111%	87-119%
460-00-4	4-Bromofluorobenzene	109%	109%	110%	80-133%

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T60475
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.58	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.76	<20

Associated samples MP12966: T60475-1, T60475-2, T60475-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T60475
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			09/28/10					09/28/10	
Metal	T60258-1 Original	DUP	RPD	QC Limits	T60258-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	3.5	3.6	2.8	0-20	3.5	381	400	94.4	80-120
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	0.0	0.0	NC	0-20	0.0	387	400	96.8	80-120

Associated samples MP12966: T60475-1, T60475-2, T60475-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T60475
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	T60258-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	3.5	378	400	93.6	0.8	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin	anr					
Titanium	anr					
Vanadium	anr					
Zinc	0.0	384	400	96.0	0.8	20

Associated samples MP12966: T60475-1, T60475-2, T60475-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T60475
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	372	400	93.0	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	386	400	96.5	80-120

Associated samples MP12966: T60475-1, T60475-2, T60475-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T60475
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP12966
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/28/10

Metal	T60258-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	3.47	0.00	100.0(a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	0.00	7.04		0-10

Associated samples MP12966: T60475-1, T60475-2, T60475-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

12/01/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T62235

Sampling Date: 10/21/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Accutest LabLink@46687 15:04 01-Dec-2010

Sample Summary

United Technology Corporation

Job No: T62235

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T62235-1	10/21/10	12:30		10/22/10	AQ	Ground Water	MW60
T62235-2	10/21/10	13:10		10/22/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T62235
Site:	XDD/UT Collierville/031091	**Report Date**	10/27/2010 4:21:30 PM

2 Samples were collected on 10/21/2010 and were received at Accutest on 10/22/2010 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of T62235. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix	AQ	**Batch ID:**	VC587

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T62235-2MS, T62235-2MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T62235-1	**Date Sampled:**	10/21/10
Matrix:	AQ - Ground Water	**Date Received:**	10/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0013441.D	1	10/26/10	AK	n/a	n/a	VC587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T62235-1	**Date Sampled:**	10/21/10
Matrix:	AQ - Ground Water	**Date Received:**	10/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T62235-2	**Date Sampled:**	10/21/10
Matrix:	AQ - Ground Water	**Date Received:**	10/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0013437.D	1	10/26/10	AK	n/a	n/a	VC587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T62235-2	**Date Sampled:**	10/21/10
Matrix:	AQ - Ground Water	**Date Received:**	10/22/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T62235

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1770 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): FRANK BONNELLA Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 975 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to):
Company Name: XDD-LLC
Street Address: 22 MARIA WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	10-21-10	1230	JFO	GW	3	3												X	
2	MW 62	10-21-10	1310	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other_____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@AOL.COM

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10-21-10/1400	1 [signature]	2 FED EX	10-21-10/1400	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 10/22/10 0900	Received By: 4 ALOC [signature]
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.6°C

FED EX AIR Bill # 8658 9996 1253

T62235: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T62235 Client: SAS Environmental Inc Date/Time Received: 10/22/10 0900

# of Coolers Received: 1 Thermometer #: IRGun04 Temperature Adjustment Factor: 0

Cooler Temperatures (initial/adjusted): #1: 1.6°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Daniel Hudd[illegible] 10/22/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [illegible]

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samp\emanagement SM023 Revised 8/11/10

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T62235: Chain of Custody
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SAMPLE RECEIPT LOG

JOB #: T62235 DATE/TIME RECEIVED: 10/22/10 0900

CLIENT: SAS Environmental Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW60	10-21-10 1230	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW62	10-21-10 1310	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/12/01 cwp

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T62235: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC587-MB	C0013434.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC587-MB	C0013434.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	75-121%
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Blank Spike Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC587-BS	C0013429.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	62-124
71-43-2	Benzene	25	23.8	95	76-118
75-27-4	Bromodichloromethane	25	23.0	92	68-107
75-25-2	Bromoform	25	22.8	91	64-103
108-90-7	Chlorobenzene	25	23.6	94	74-111
75-00-3	Chloroethane	25	22.0	88	75-135
67-66-3	Chloroform	25	24.0	96	75-117
75-15-0	Carbon disulfide	25	25.5	102	57-126
56-23-5	Carbon tetrachloride	25	27.0	108	75-125
75-34-3	1,1-Dichloroethane	25	24.6	98	76-121
75-35-4	1,1-Dichloroethylene	25	26.6	106	71-128
107-06-2	1,2-Dichloroethane	25	22.1	88	70-111
78-87-5	1,2-Dichloropropane	25	23.3	93	71-113
124-48-1	Dibromochloromethane	25	23.5	94	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.5	98	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	75-111
100-41-4	Ethylbenzene	25	24.8	99	75-112
591-78-6	2-Hexanone	125	117	94	60-113
108-10-1	4-Methyl-2-pentanone	125	116	93	63-115
74-83-9	Methyl bromide	25	22.6	90	59-132
74-87-3	Methyl chloride	25	23.5	94	56-150
75-09-2	Methylene chloride	25	23.9	96	70-113
78-93-3	Methyl ethyl ketone	125	113	90	62-117
100-42-5	Styrene	25	24.6	98	66-100
71-55-6	1,1,1-Trichloroethane	25	25.6	102	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.5	94	67-110
79-00-5	1,1,2-Trichloroethane	25	23.1	92	69-107
127-18-4	Tetrachloroethylene	25	25.6	102	77-120
108-88-3	Toluene	25	24.8	99	77-114
79-01-6	Trichloroethylene	25	24.6	98	74-117
75-01-4	Vinyl chloride	25	25.1	100	64-121
1330-20-7	Xylene (total)	75	74.7	100	75-111

Blank Spike Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC587-BS	C0013429.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T62235-2MS	C0013438.D	1	10/26/10	AK	n/a	n/a	VC587
T62235-2MSD	C0013439.D	1	10/26/10	AK	n/a	n/a	VC587
T62235-2	C0013437.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Compound	T62235-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	116	93	113	90	3	62-124/21
71-43-2	Benzene	ND		25	24.9	100	24.2	97	3	76-118/16
75-27-4	Bromodichloromethane	ND		25	24.2	97	23.7	95	2	68-107/12
75-25-2	Bromoform	ND		25	23.7	95	23.7	95	0	64-103/14
108-90-7	Chlorobenzene	ND		25	24.1	96	23.5	94	3	74-111/11
75-00-3	Chloroethane	ND		25	22.9	92	21.3	85	7	75-135/15
67-66-3	Chloroform	ND		25	25.0	100	23.9	96	4	75-117/12
75-15-0	Carbon disulfide	ND		25	25.3	101	23.7	95	7	57-126/13
56-23-5	Carbon tetrachloride	ND		25	26.9	108	24.8	99	8	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.4	102	24.2	97	5	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	27.1	108	24.6	98	10	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	23.4	94	23.3	93	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	24.0	96	23.9	96	0	71-113/12
124-48-1	Dibromochloromethane	ND		25	24.5	98	24.4	98	0	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.7	103	24.7	99	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.8	99	24.6	98	1	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.7	99	23.8	95	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.6	106	26.9	108	1	75-111/12
100-41-4	Ethylbenzene	ND		25	25.0	100	24.1	96	4	75-112/12
591-78-6	2-Hexanone	ND		125	118	94	118	94	0	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	121	97	120	96	1	63-115/21
74-83-9	Methyl bromide	ND		25	23.2	93	21.9	88	6	59-132/15
74-87-3	Methyl chloride	ND		25	24.1	96	22.7	91	6	56-150/17
75-09-2	Methylene chloride	ND		25	23.4	94	23.2	93	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	124	99	121	97	2	62-117/21
100-42-5	Styrene	ND		25	24.9	100	24.4	98	2	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	25.3	101	24.4	98	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.2	97	24.3	97	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	24.3	97	23.2	93	5	69-107/14
127-18-4	Tetrachloroethylene	ND		25	25.9	104	23.9	96	8	77-120/13
108-88-3	Toluene	ND		25	25.4	102	24.6	98	3	77-114/12
79-01-6	Trichloroethylene	ND		25	25.1	100	23.9	96	5	74-117/12
75-01-4	Vinyl chloride	ND		25	25.7	103	22.9	92	12	64-121/19
1330-20-7	Xylene (total)	ND		75	76.0	101	73.7	98	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T62235
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T62235-2MS	C0013438.D	1	10/26/10	AK	n/a	n/a	VC587
T62235-2MSD	C0013439.D	1	10/26/10	AK	n/a	n/a	VC587
T62235-2	C0013437.D	1	10/26/10	AK	n/a	n/a	VC587

The QC reported here applies to the following samples: **Method:** SW846 8260B

T62235-1, T62235-2

CAS No.	Surrogate Recoveries	MS	MSD	T62235-2	Limits
1868-53-7	Dibromofluoromethane	101%	103%	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	101%	75-121%
2037-26-5	Toluene-D8	106%	106%	105%	87-119%
460-00-4	4-Bromofluorobenzene	96%	95%	94%	80-133%

Gulf Coast ACCUTEST LABORATORIES

11/24/10

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T63269

Sampling Date: 11/08/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@46586 11:50 24-Nov-2010

Sample Summary

United Technology Corporation

Job No: T63269

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T63269-1	11/08/10	11:25		11/09/10	AQ	Ground Water	MW60
T63269-2	11/08/10	12:10		11/09/10	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T63269
Site:	XDD/UT Collierville/031091	**Report Date**	11/22/2010 3:59:19 PM

2 Samples were collected on 11/08/2010 and were received at Accutest on 11/09/2010 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of T63269. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX784

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T63439-2MS, T63439-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Bromoform, Dibromochloromethane, Styrene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromoform, Dibromochloromethane, Styrene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T63269-1	**Date Sampled:**	11/08/10
Matrix:	AQ - Ground Water	**Date Received:**	11/09/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0066956.D	1	11/16/10	NM	n/a	n/a	VX784
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T63269-1	**Date Sampled:**	11/08/10
Matrix:	AQ - Ground Water	**Date Received:**	11/09/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T63269-2	**Date Sampled:**	11/08/10
Matrix:	AQ - Ground Water	**Date Received:**	11/09/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0066957.D	1	11/16/10	NM	n/a	n/a	VX784
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T63269-2	**Date Sampled:**	11/08/10
Matrix:	AQ - Ground Water	**Date Received:**	11/09/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	94%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #: T63269
Accutest Quote #:
Accutest Job #: T63269 DLA

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: markv@SASENVIRONMENTAL.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JOHN K O'Donnell Jr Phone #: 330 666 1546

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 Main Way Unit 3
City: Stratham State: NH Zip: 03885
Attention: Bruce Cliff

Requested Analyses

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	11-08-10	1125	JFO	GW	3	3												X	
2	MW 62	11-08-10	1210	JFO	GW	3	3												X	

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email results to JFO121@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	11-08-10 / 1415	1 [signature]	2 FED EX	11-08-10 / 1415	2 FedEx / ALGC
3		3	4	11/9/10 0855	4 ALGC [signature]
5		5			

Custody Seal #: ☐ Intact ☐ Not Intact
Preserved where applicable: ☐
On Ice: ☑
Cooler Temp. 1.1°C

SAMPLE INSPECTION FORM

Accutest Job Number: T63269 Client: SAS Environmental Inc Date/Time Received: 11/9/10 0855

# of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0

Cooler Temperatures (initial/adjusted): #1: 1.1°C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 11/9/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 11/9/10

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T63269: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T63269 DATE/TIME RECEIVED: 11/9/10 0855

CLIENT: SAS Environmental Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW60	11-8-10 1125	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW62	11-8-10 1210	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

DRA 11/9/10

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T63269: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX784-MB	X0066944.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX784-MB	X0066944.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Blank Spike Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX784-BS	X0066942.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	111	89	62-124
71-43-2	Benzene	25	25.1	100	76-118
75-27-4	Bromodichloromethane	25	24.1	96	68-107
75-25-2	Bromoform	25	24.8	99	64-103
108-90-7	Chlorobenzene	25	25.1	100	74-111
75-00-3	Chloroethane	25	26.0	104	75-135
67-66-3	Chloroform	25	24.6	98	75-117
75-15-0	Carbon disulfide	25	24.3	97	57-126
56-23-5	Carbon tetrachloride	25	26.9	108	75-125
75-34-3	1,1-Dichloroethane	25	24.4	98	76-121
75-35-4	1,1-Dichloroethylene	25	26.0	104	71-128
107-06-2	1,2-Dichloroethane	25	23.7	95	70-111
78-87-5	1,2-Dichloropropane	25	25.1	100	71-113
124-48-1	Dibromochloromethane	25	25.8	103	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.2	105	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.8	99	70-125
10061-02-6	trans-1,3-Dichloropropene	25	27.5	110	75-111
100-41-4	Ethylbenzene	25	25.7	103	75-112
591-78-6	2-Hexanone	125	124	99	60-113
108-10-1	4-Methyl-2-pentanone	125	123	98	63-115
74-83-9	Methyl bromide	25	26.4	106	59-132
74-87-3	Methyl chloride	25	27.7	111	56-150
75-09-2	Methylene chloride	25	23.7	95	70-113
78-93-3	Methyl ethyl ketone	125	120	96	62-117
100-42-5	Styrene	25	26.4	106* [a]	66-100
71-55-6	1,1,1-Trichloroethane	25	26.0	104	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.4	106	67-110
79-00-5	1,1,2-Trichloroethane	25	25.0	100	69-107
127-18-4	Tetrachloroethylene	25	26.7	107	77-120
108-88-3	Toluene	25	25.7	103	77-114
79-01-6	Trichloroethylene	25	25.6	102	74-117
75-01-4	Vinyl chloride	25	29.7	119	64-121
1330-20-7	Xylene (total)	75	77.7	104	75-111

Blank Spike Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX784-BS	X0066942.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	75-121%
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T63439-2MS	X0066953.D	1	11/16/10	NM	n/a	n/a	VX784
T63439-2MSD	X0066954.D	1	11/16/10	NM	n/a	n/a	VX784
T63439-2	X0066952.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Compound	T63439-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	127	102	123	98	3	62-124/21
71-43-2	Benzene	ND		25	25.5	102	24.4	98	4	76-118/16
75-27-4	Bromodichloromethane	ND		25	25.5	102	24.5	98	4	68-107/12
75-25-2	Bromoform	ND		25	26.7	107*	27.3	109*	2	64-103/14
108-90-7	Chlorobenzene	ND		25	25.4	102	24.2	97	5	74-111/11
75-00-3	Chloroethane	ND		25	27.0	108	25.1	100	7	75-135/15
67-66-3	Chloroform	ND		25	25.9	104	24.6	98	5	75-117/12
75-15-0	Carbon disulfide	ND		25	24.0	96	22.9	92	5	57-126/13
56-23-5	Carbon tetrachloride	ND		25	28.5	114	26.0	104	9	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.1	100	24.2	97	4	76-121/13
75-35-4	1,1-Dichloroethylene	0.56	J	25	28.5	112	25.9	101	10	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	25.9	104	24.9	100	4	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	26.1	104	25.3	101	3	71-113/12
124-48-1	Dibromochloromethane	ND		25	27.0	108*	26.5	106*	2	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.5	106	25.7	103	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.8	99	24.4	98	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.8	103	24.2	97	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.0	108	26.8	107	1	75-111/12
100-41-4	Ethylbenzene	ND		25	26.5	106	25.4	102	4	75-112/12
591-78-6	2-Hexanone	ND		125	139	111	135	108	3	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	137	110	135	108	1	63-115/21
74-83-9	Methyl bromide	ND		25	26.4	106	26.0	104	2	59-132/15
74-87-3	Methyl chloride	ND		25	29.1	116	27.8	111	5	56-150/17
75-09-2	Methylene chloride	ND		25	23.2	93	21.9	88	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	133	106	132	106	1	62-117/21
100-42-5	Styrene	ND		25	26.8	107*	25.7	103*	4	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	27.2	109	25.1	100	8	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	27.8	111*	27.1	108	3	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.8	103	24.5	98	5	69-107/14
127-18-4	Tetrachloroethylene	ND		25	26.6	106	24.6	98	8	77-120/13
108-88-3	Toluene	ND		25	26.3	105	25.2	101	4	77-114/12
79-01-6	Trichloroethylene	ND		25	26.9	108	25.0	100	7	74-117/12
75-01-4	Vinyl chloride	ND		25	30.3	121	27.9	112	8	64-121/19
1330-20-7	Xylene (total)	ND		75	79.3	106	77.0	103	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T63269
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T63439-2MS	X0066953.D	1	11/16/10	NM	n/a	n/a	VX784
T63439-2MSD	X0066954.D	1	11/16/10	NM	n/a	n/a	VX784
T63439-2	X0066952.D	1	11/15/10	NM	n/a	n/a	VX784

The QC reported here applies to the following samples: **Method:** SW846 8260B

T63269-1, T63269-2

CAS No.	Surrogate Recoveries	MS	MSD	T63439-2	Limits
1868-53-7	Dibromofluoromethane	92%	91%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	94%	94%	75-121%
2037-26-5	Toluene-D8	96%	94%	93%	87-119%
460-00-4	4-Bromofluorobenzene	94%	94%	94%	80-133%

Gulf Coast ACCUTEST LABORATORIES

05/15/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T65778

Sampling Date: 12/20/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **37**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-7) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Accutest LabLink@57030 10:23 15-May-2012

Sample Summary

United Technology Corporation

Job No: T65778

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T65778-1	12/20/10	12:00		12/21/10	AQ	Ground Water	MW4
T65778-2	12/20/10	13:20		12/21/10	AQ	Ground Water	MW10
T65778-3	12/20/10	12:35		12/21/10	AQ	Ground Water	MW31R

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T65778
Site:	XDD/UT Collierville/031091	**Report Date**	1/7/2011 12:42:23 PM

3 Sample(s) were collected on 12/20/2010 and were received at Accutest on 12/21/2010 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T65778. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX839

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T65779-1MS, T65779-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Probable cause due to matrix interference.

Metals By Method EPA 200.7

Matrix AQ **Batch ID:** MP13652

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T65778-1DUP, T65778-1MS, T65778-1MSD, T65778-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T65778-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068311.D	5	12/30/10	NM	n/a	n/a	VX839
Run #2	X0068302.D	25	12/30/10	NM	n/a	n/a	VX839

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	ND	10	ug/l	
108-86-1	Bromobenzene	ND	10	ug/l	
74-97-5	Bromochloromethane	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	10	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3010 [a]	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T65778-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	24.7	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	10	ug/l	
74-87-3	Methyl chloride	ND	10	ug/l	
74-95-3	Methylene bromide	ND	10	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
91-20-3	Naphthalene	ND	25	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
79-01-6	Trichloroethylene	3320 [a]	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	10	ug/l	
1330-20-7	Xylene (total)	ND	30	ug/l	
	m,p-Xylene	ND	20	ug/l	
95-47-6	o-Xylene	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	80%	84%	75-121%
2037-26-5	Toluene-D8	89%	89%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T65778-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T65778-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.7	3.0	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Zinc	3580	20	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5361
(2) Prep QC Batch: MP13652

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T65778-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068312.D	20	12/30/10	NM	n/a	n/a	VX839
Run #2	X0068301.D	250	12/30/10	NM	n/a	n/a	VX839

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	40	ug/l	
108-86-1	Bromobenzene	ND	40	ug/l	
74-97-5	Bromochloromethane	ND	40	ug/l	
75-27-4	Bromodichloromethane	ND	40	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
104-51-8	n-Butylbenzene	ND	40	ug/l	
135-98-8	sec-Butylbenzene	ND	40	ug/l	
98-06-6	tert-Butylbenzene	ND	40	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	40	ug/l	
67-66-3	Chloroform	ND	40	ug/l	
95-49-8	o-Chlorotoluene	ND	40	ug/l	
106-43-4	p-Chlorotoluene	ND	40	ug/l	
75-15-0	Carbon disulfide	ND	40	ug/l	
56-23-5	Carbon tetrachloride	ND	40	ug/l	
75-34-3	1,1-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethylene	ND	40	ug/l	
563-58-6	1,1-Dichloropropene	ND	40	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	ug/l	
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
78-87-5	1,2-Dichloropropane	ND	40	ug/l	
142-28-9	1,3-Dichloropropane	ND	40	ug/l	
594-20-7	2,2-Dichloropropane	ND	40	ug/l	
124-48-1	Dibromochloromethane	ND	40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	227	40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	40	ug/l	
541-73-1	m-Dichlorobenzene	ND	40	ug/l	
95-50-1	o-Dichlorobenzene	ND	40	ug/l	
106-46-7	p-Dichlorobenzene	ND	40	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T65778-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	40	ug/l	
100-41-4	Ethylbenzene	ND	40	ug/l	
591-78-6	2-Hexanone	ND	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	ug/l	
98-82-8	Isopropylbenzene	ND	40	ug/l	
99-87-6	p-Isopropyltoluene	ND	40	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	200	ug/l	
74-83-9	Methyl bromide	ND	40	ug/l	
74-87-3	Methyl chloride	ND	40	ug/l	
74-95-3	Methylene bromide	ND	40	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	40	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	40	ug/l	
100-42-5	Styrene	ND	40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	ug/l	
127-18-4	Tetrachloroethylene	ND	40	ug/l	
108-88-3	Toluene	ND	40	ug/l	
79-01-6	Trichloroethylene	37500 [a]	500	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	ug/l	
75-01-4	Vinyl chloride	ND	40	ug/l	
1330-20-7	Xylene (total)	ND	120	ug/l	
	m,p-Xylene	ND	80	ug/l	
95-47-6	o-Xylene	ND	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	81%	83%	75-121%
2037-26-5	Toluene-D8	88%	90%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T65778-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%	92%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T65778-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.9	3.0	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5361
(2) Prep QC Batch: MP13652

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T65778-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068300.D	1	12/30/10	NM	n/a	n/a	VX839
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.1	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T65778-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	2.9	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-122%
17060-07-0	1,2-Dichloroethane-D4	83%		75-121%
2037-26-5	Toluene-D8	91%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T65778-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T65778-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.4	3.0	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Zinc	107	20	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5361
(2) Prep QC Batch: MP13652

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T65778

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC.
Street Address: 1270 S. Cleve - Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark V. Allen E-mail: mallen@sasenvironmental.com
Phone #: 330666 1546 Fax #: 330666 7993
Sampler(s) Name(s): JFRANK OCONNELLE Phone #: 330666 1546

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD-LLC
Project Manager: Mark V. Allen

Billing Information (if different from Report to)
Company Name: XDD-LLC
Street Address: 22 Marin Way Unit 3
City: Stratham State: NH Zip: 03885
Attention: Bruce Cliff

Requested Analyses: VOC 8260 Full List; Lead/Zinc

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 Full List	Lead/Zinc	LAB USE ONLY
1	MW 4	12-20-10	1200	JFO	GW	4	3			1									X	X	
2	MW 10	12-20-10	1320	JFO	GW	4	3			1									X	X	
3	MW 31R	12-20-10	1235	JFO	GW	4	3			1									X	X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email Results to JFO121@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery. 12/21/10 0840

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12-20-10 / 1700	1 FEDEX	2 FED EX	12-20-10 / 1700	2 ALGC [signature]
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 1.0°C

T65778: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T65778 Client: SAS Environmental Inc. Date/Time Received: 12/21/10 0940

# of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0

Cooler Temperatures (initial/adjusted): #1: 1.0°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Danielle Huckelbottom 12/21/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [illegible] 12.21.10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalker\formsamplemanagement SM023 Revised 8/11/10

T65778: Chain of Custody

Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T65778 DATE/TIME RECEIVED: 12/21/10 0940

CLIENT: SAS Environmental Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-4	12-20-10 1200	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
	1	↓	↓		500ml	4	1W	1 2 (3) 4 5 6 7 8	(<2) >12
	2	MW10	1320		40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	↓	↓		500ml	4	1W	1 2 (3) 4 5 6 7 8	(<2) >12
	3	MW31R	1235		40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
↓	3	↓	↓	↓	500ml	4	1W	1 2 (3) 4 5 6 7 8	(<2) >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			DRA					1 2 3 4 5 6 7 8	<2 >12
			12/21/10					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T65778: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%

Method Blank Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Blank Spike Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	91.8	73	62-124
71-43-2	Benzene	25	22.1	88	76-118
108-86-1	Bromobenzene	25	23.9	96	72-110
74-97-5	Bromochloromethane	25	21.7	87	69-110
75-27-4	Bromodichloromethane	25	22.0	88	68-107
75-25-2	Bromoform	25	23.4	94	64-103
104-51-8	n-Butylbenzene	25	23.9	96	74-114
135-98-8	sec-Butylbenzene	25	24.2	97	76-118
98-06-6	tert-Butylbenzene	25	23.6	94	72-116
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	23.5	94	75-135
67-66-3	Chloroform	25	22.5	90	75-117
95-49-8	o-Chlorotoluene	25	22.6	90	74-113
106-43-4	p-Chlorotoluene	25	22.8	91	72-114
75-15-0	Carbon disulfide	25	21.3	85	57-126
56-23-5	Carbon tetrachloride	25	27.0	108	75-125
75-34-3	1,1-Dichloroethane	25	21.9	88	76-121
75-35-4	1,1-Dichloroethylene	25	24.8	99	71-128
563-58-6	1,1-Dichloropropene	25	25.5	102	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.2	77	55-121
106-93-4	1,2-Dibromoethane	25	22.6	90	69-106
107-06-2	1,2-Dichloroethane	25	21.1	84	70-111
78-87-5	1,2-Dichloropropane	25	22.2	89	71-113
142-28-9	1,3-Dichloropropane	25	22.3	89	69-106
594-20-7	2,2-Dichloropropane	25	25.5	102	68-130
124-48-1	Dibromochloromethane	25	23.8	95	69-104
75-71-8	Dichlorodifluoromethane	25	29.9	120	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	71-111
541-73-1	m-Dichlorobenzene	25	23.7	95	74-110
95-50-1	o-Dichlorobenzene	25	23.0	92	72-108
106-46-7	p-Dichlorobenzene	25	23.3	93	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.2	89	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.1	100	75-111
100-41-4	Ethylbenzene	25	23.2	93	75-112
591-78-6	2-Hexanone	125	103	82	60-113

Blank Spike Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.5	106	72-123
98-82-8	Isopropylbenzene	25	26.9	108	75-123
99-87-6	p-Isopropyltoluene	25	23.7	95	76-116
108-10-1	4-Methyl-2-pentanone	125	101	81	63-115
74-83-9	Methyl bromide	25	24.8	99	59-132
74-87-3	Methyl chloride	25	23.8	95	56-150
74-95-3	Methylene bromide	25	23.2	93	68-114
75-09-2	Methylene chloride	25	20.2	81	70-113
78-93-3	Methyl ethyl ketone	125	101	81	62-117
1634-04-4	Methyl Tert Butyl Ether	25	20.4	82	65-113
91-20-3	Naphthalene	25	20.3	81	53-127
103-65-1	n-Propylbenzene	25	23.7	95	74-115
100-42-5	Styrene	25	23.6	94	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	24.1	96	72-108
71-55-6	1,1,1-Trichloroethane	25	22.2	89	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.2	89	67-110
79-00-5	1,1,2-Trichloroethane	25	22.5	90	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	51-128
96-18-4	1,2,3-Trichloropropane	25	20.2	81	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.0	92	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.6	90	73-111
108-67-8	1,3,5-Trimethylbenzene	25	22.6	90	74-115
127-18-4	Tetrachloroethylene	25	25.0	100	77-120
108-88-3	Toluene	25	22.2	89	77-114
79-01-6	Trichloroethylene	25	24.0	96	74-117
75-69-4	Trichlorofluoromethane	25	26.7	107	64-132
75-01-4	Vinyl chloride	25	25.2	101	64-121
1330-20-7	Xylene (total)	75	68.5	91	75-111
	m,p-Xylene	50	46.0	92	75-112
95-47-6	o-Xylene	25	22.5	90	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%

Blank Spike Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	T65779-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	93.3	75	85.0	68	9	62-124/21
71-43-2	Benzene	ND		25	22.8	91	22.5	90	1	76-118/16
108-86-1	Bromobenzene	ND		25	24.8	99	24.6	98	1	72-110/12
74-97-5	Bromochloromethane	ND		25	22.3	89	22.1	88	1	69-110/12
75-27-4	Bromodichloromethane	ND		25	22.6	90	22.2	89	2	68-107/12
75-25-2	Bromoform	ND		25	24.5	98	23.3	93	5	64-103/14
104-51-8	n-Butylbenzene	ND		25	24.3	97	23.3	93	4	74-114/12
135-98-8	sec-Butylbenzene	ND		25	25.0	100	24.2	97	3	76-118/12
98-06-6	tert-Butylbenzene	ND		25	24.5	98	23.6	94	4	72-116/14
108-90-7	Chlorobenzene	ND		25	23.9	96	23.6	94	1	74-111/11
75-00-3	Chloroethane	ND		25	24.0	96	23.3	93	3	75-135/15
67-66-3	Chloroform	ND		25	23.0	92	22.9	92	0	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.8	95	23.2	93	3	74-113/12
106-43-4	p-Chlorotoluene	ND		25	23.7	95	23.0	92	3	72-114/12
75-15-0	Carbon disulfide	ND		25	22.2	89	21.0	84	6	57-126/13
56-23-5	Carbon tetrachloride	ND		25	28.2	113	26.6	106	6	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	22.8	91	22.0	88	4	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.0	100	23.2	93	7	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	25.9	104	24.8	99	4	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	20.2	81	19.3	77	5	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	23.4	94	22.7	91	3	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	22.2	89	21.8	87	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	22.6	90	22.3	89	1	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	22.8	91	22.0	88	4	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	24.5	98	23.9	96	2	68-130/14
124-48-1	Dibromochloromethane	ND		25	24.7	99	24.2	97	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	31.9	128*	28.8	115	10	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.6	98	24.6	98	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.7	95	23.2	93	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	24.6	98	24.1	96	2	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	23.8	95	23.1	92	3	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	24.0	96	23.5	94	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.9	92	22.3	89	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.1	100	24.8	99	1	75-111/12
100-41-4	Ethylbenzene	ND		25	23.9	96	23.5	94	2	75-112/12
591-78-6	2-Hexanone	ND		125	104	83	92.0	74	12	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Compound	T65779-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	25.9	104	24.4	98	6	72-123/17
98-82-8	Isopropylbenzene	ND		25	28.2	113	27.1	108	4	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	24.7	99	23.9	96	3	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	104	83	94.6	76	9	63-115/21
74-83-9	Methyl bromide	ND		25	25.3	101	24.6	98	3	59-132/15
74-87-3	Methyl chloride	ND		25	24.5	98	24.2	97	1	56-150/17
74-95-3	Methylene bromide	ND		25	23.8	95	23.2	93	3	68-114/13
75-09-2	Methylene chloride	ND		25	21.0	84	20.8	83	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	102	82	91.5	73	11	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.0	84	20.3	81	3	65-113/13
91-20-3	Naphthalene	ND		25	18.5	74	16.7	67	10	53-127/34
103-65-1	n-Propylbenzene	ND		25	24.8	99	23.7	95	5	74-115/12
100-42-5	Styrene	ND		25	24.0	96	23.4	94	3	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.8	99	24.7	99	0	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.2	93	22.7	91	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.9	92	21.2	85	8	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	23.1	92	22.6	90	2	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	19.9	80	18.2	73	9	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	21.9	88	20.3	81	8	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.8	91	21.5	86	6	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.6	94	23.1	92	2	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.8	95	23.0	92	3	74-115/12
127-18-4	Tetrachloroethylene	ND		25	25.7	103	24.7	99	4	77-120/13
108-88-3	Toluene	ND		25	22.9	92	22.5	90	2	77-114/12
79-01-6	Trichloroethylene	ND		25	24.7	99	24.0	96	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	28.0	112	25.9	104	8	64-132/18
75-01-4	Vinyl chloride	ND		25	26.1	104	24.7	99	6	64-121/19
1330-20-7	Xylene (total)	ND		75	69.9	93	68.0	91	3	75-111/12
	m,p-Xylene	ND		50	46.8	94	45.5	91	3	75-112/12
95-47-6	o-Xylene	ND		25	23.1	92	22.5	90	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T65779-1	Limits
1868-53-7	Dibromofluoromethane	88%	90%	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	83%	82%	85%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65778
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65778-1, T65778-2, T65778-3

CAS No.	Surrogate Recoveries	MS	MSD	T65779-1	Limits
2037-26-5	Toluene-D8	89%	89%	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	89%	90%	80-133%

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T65778
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	2.9		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.11		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.18	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.39		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	1.5		
Silver	10	1.2	1.2		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.72	<20

Associated samples MP13652: T65778-1, T65778-2, T65778-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T65778
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:			12/28/10					12/28/10	
Metal	T65778-1 Original	DUP	RPD	QC Limits	T65778-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	12.7	12.6	0.8	0-20	12.7	407	400	98.6	70-130
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	3580	3640	1.7	0-20	3580	4110	400	132.5(a)	70-130

Associated samples MP13652: T65778-1, T65778-2, T65778-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T65778
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	T65778-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	12.7	405	400	98.1	0.5	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	3580	4100	400	130.0	0.2	20

Associated samples MP13652: T65778-1, T65778-2, T65778-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T65778
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	390	400	97.5	85-115
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	402	400	100.5	85-115

Associated samples MP13652: T65778-1, T65778-2, T65778-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T65778
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	T65778-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	12.7	12.6	0.5	0-7
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	3580	3430	4.0	0-7

Associated samples MP13652: T65778-1, T65778-2, T65778-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T65779

Sampling Date: 12/20/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **36**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@55450 15:48 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T65779

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T65779-1	12/20/10	14:05		12/21/10	AQ	Ground Water	MW60
T65779-2	12/20/10	14:40		12/21/10	AQ	Ground Water	MW62
T65779-3	12/20/10	14:45		12/21/10	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T65779
Site:	XDD/UT Collierville/031091	**Report Date**	1/7/2011 12:43:07 PM

3 Sample(s) were collected on 12/20/2010 and were received at Accutest on 12/21/2010 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T65779. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX839

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T65779-1MS, T65779-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Probable cause due to matrix interference.

Metals By Method EPA 200.7

Matrix AQ **Batch ID:** MP13652

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T65778-1DUP, T65778-1MS, T65778-1MSD, T65778-1SDL, T65778-1DUP were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Duplicate for Chromium are outside control limits for sample MP13652-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T65779-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T65779-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-122%
17060-07-0	1,2-Dichloroethane-D4	85%		75-121%
2037-26-5	Toluene-D8	90%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T65779-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T65779-1	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5361
(2) Prep QC Batch: MP13652

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T65779-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068298.D	1	12/30/10	NM	n/a	n/a	VX839
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T65779-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	84%		75-121%
2037-26-5	Toluene-D8	90%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T65779-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T65779-2	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Lead	3.0	3.0	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/28/10	12/31/10	TW	EPA 200.7 [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5361
(2) Prep QC Batch: MP13652

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T65779-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0068299.D	1	12/30/10	NM	n/a	n/a	VX839
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T65779-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	83%		75-121%
2037-26-5	Toluene-D8	90%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T65779-3	**Date Sampled:**	12/20/10
Matrix:	AQ - Ground Water	**Date Received:**	12/21/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T65779

Client / Reporting Information

Company Name	SASENVIRONMENTAL INC
Street Address	1270 S. Cleve-Mass Rd
City / State / Zip	Akron OH 44321
Project Contact / E-mail	Mark V. Allen m.allen@sasenvironmental.com
Phone # / Fax #	330 666 1546 330 666 7443
Sampler(s) Name(s) / Phone #	J Frank O'Connell 330 666 1546

Project Information

Project Name:	VT Collierville
Street	97 S. Byhalia Rd
City / State	Collierville TN
Project #	031091
Client Purchase Order #	Bill to XDD-LLC
Project Manager	Mark V. Allen

Billing Information (If different from Report to)

Company Name	XDD-LLC
Street Address	22 Marin Way Unit 3
City / State / Zip	Stratham NH 03885
Attention:	Bruce Cliff

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 Full List	Lead/Zinc/Total Cr	LAB USE ONLY
1	MW 60	12-20-10	1405	JFO	GW	4	3			1									X	X	
2	MW 62	12-20-10	1440	JFO	GW	4	3			1									X	X	
3	DUPLICATE	12-20-10	1445	JFO	GW	3	3												X		

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email results to JFO121@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery. 12/21/10 0940

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12-20-10 / 1700	1 FEDEX	2 FEDEX	12-20-10 / 1700	2 ADGC [signature]
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	Orvice ☑ Cooler Temp. 1.0°C

T65779: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T65779 Client: SAS Environmental Inc. Date/Time Received: 12/21/10 0940

# of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0

Cooler Temperatures (initial/adjusted): #1: 1.0°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Daniel Kendlbacher 12/21/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: GL 12.21.10

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T65779: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T65779 DATE/TIME RECEIVED: 12/21/10 0940

CLIENT: SAS Environmental, Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW60	12-20-10 1405	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
	1	↓	↓		500ml	4	IW	1 2 (3) 4 5 6 7 8	(<2) >12
	2	MW62	1440		40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	↓	↓		500ml	4	IW	1 2 (3) 4 5 6 7 8	(<2) >12
↓	3	Duplicate	↓ 1445	↓	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			DRA					1 2 3 4 5 6 7 8	<2 >12
			12/21/10					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T65779: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%

Method Blank Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-MB	X0068293.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Blank Spike Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	91.8	73	62-124
71-43-2	Benzene	25	22.1	88	76-118
108-86-1	Bromobenzene	25	23.9	96	72-110
74-97-5	Bromochloromethane	25	21.7	87	69-110
75-27-4	Bromodichloromethane	25	22.0	88	68-107
75-25-2	Bromoform	25	23.4	94	64-103
104-51-8	n-Butylbenzene	25	23.9	96	74-114
135-98-8	sec-Butylbenzene	25	24.2	97	76-118
98-06-6	tert-Butylbenzene	25	23.6	94	72-116
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	23.5	94	75-135
67-66-3	Chloroform	25	22.5	90	75-117
95-49-8	o-Chlorotoluene	25	22.6	90	74-113
106-43-4	p-Chlorotoluene	25	22.8	91	72-114
75-15-0	Carbon disulfide	25	21.3	85	57-126
56-23-5	Carbon tetrachloride	25	27.0	108	75-125
75-34-3	1,1-Dichloroethane	25	21.9	88	76-121
75-35-4	1,1-Dichloroethylene	25	24.8	99	71-128
563-58-6	1,1-Dichloropropene	25	25.5	102	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.2	77	55-121
106-93-4	1,2-Dibromoethane	25	22.6	90	69-106
107-06-2	1,2-Dichloroethane	25	21.1	84	70-111
78-87-5	1,2-Dichloropropane	25	22.2	89	71-113
142-28-9	1,3-Dichloropropane	25	22.3	89	69-106
594-20-7	2,2-Dichloropropane	25	25.5	102	68-130
124-48-1	Dibromochloromethane	25	23.8	95	69-104
75-71-8	Dichlorodifluoromethane	25	29.9	120	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	71-111
541-73-1	m-Dichlorobenzene	25	23.7	95	74-110
95-50-1	o-Dichlorobenzene	25	23.0	92	72-108
106-46-7	p-Dichlorobenzene	25	23.3	93	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.2	89	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.1	100	75-111
100-41-4	Ethylbenzene	25	23.2	93	75-112
591-78-6	2-Hexanone	125	103	82	60-113

Blank Spike Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.5	106	72-123
98-82-8	Isopropylbenzene	25	26.9	108	75-123
99-87-6	p-Isopropyltoluene	25	23.7	95	76-116
108-10-1	4-Methyl-2-pentanone	125	101	81	63-115
74-83-9	Methyl bromide	25	24.8	99	59-132
74-87-3	Methyl chloride	25	23.8	95	56-150
74-95-3	Methylene bromide	25	23.2	93	68-114
75-09-2	Methylene chloride	25	20.2	81	70-113
78-93-3	Methyl ethyl ketone	125	101	81	62-117
1634-04-4	Methyl Tert Butyl Ether	25	20.4	82	65-113
91-20-3	Naphthalene	25	20.3	81	53-127
103-65-1	n-Propylbenzene	25	23.7	95	74-115
100-42-5	Styrene	25	23.6	94	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	24.1	96	72-108
71-55-6	1,1,1-Trichloroethane	25	22.2	89	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.2	89	67-110
79-00-5	1,1,2-Trichloroethane	25	22.5	90	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	51-128
96-18-4	1,2,3-Trichloropropane	25	20.2	81	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.0	92	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.6	90	73-111
108-67-8	1,3,5-Trimethylbenzene	25	22.6	90	74-115
127-18-4	Tetrachloroethylene	25	25.0	100	77-120
108-88-3	Toluene	25	22.2	89	77-114
79-01-6	Trichloroethylene	25	24.0	96	74-117
75-69-4	Trichlorofluoromethane	25	26.7	107	64-132
75-01-4	Vinyl chloride	25	25.2	101	64-121
1330-20-7	Xylene (total)	75	68.5	91	75-111
	m,p-Xylene	50	46.0	92	75-112
95-47-6	o-Xylene	25	22.5	90	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%

Blank Spike Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX839-BS	X0068291.D	1	12/29/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	T65779-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	93.3	75	85.0	68	9	62-124/21
71-43-2	Benzene	ND		25	22.8	91	22.5	90	1	76-118/16
108-86-1	Bromobenzene	ND		25	24.8	99	24.6	98	1	72-110/12
74-97-5	Bromochloromethane	ND		25	22.3	89	22.1	88	1	69-110/12
75-27-4	Bromodichloromethane	ND		25	22.6	90	22.2	89	2	68-107/12
75-25-2	Bromoform	ND		25	24.5	98	23.3	93	5	64-103/14
104-51-8	n-Butylbenzene	ND		25	24.3	97	23.3	93	4	74-114/12
135-98-8	sec-Butylbenzene	ND		25	25.0	100	24.2	97	3	76-118/12
98-06-6	tert-Butylbenzene	ND		25	24.5	98	23.6	94	4	72-116/14
108-90-7	Chlorobenzene	ND		25	23.9	96	23.6	94	1	74-111/11
75-00-3	Chloroethane	ND		25	24.0	96	23.3	93	3	75-135/15
67-66-3	Chloroform	ND		25	23.0	92	22.9	92	0	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.8	95	23.2	93	3	74-113/12
106-43-4	p-Chlorotoluene	ND		25	23.7	95	23.0	92	3	72-114/12
75-15-0	Carbon disulfide	ND		25	22.2	89	21.0	84	6	57-126/13
56-23-5	Carbon tetrachloride	ND		25	28.2	113	26.6	106	6	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	22.8	91	22.0	88	4	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.0	100	23.2	93	7	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	25.9	104	24.8	99	4	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	20.2	81	19.3	77	5	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	23.4	94	22.7	91	3	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	22.2	89	21.8	87	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	22.6	90	22.3	89	1	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	22.8	91	22.0	88	4	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	24.5	98	23.9	96	2	68-130/14
124-48-1	Dibromochloromethane	ND		25	24.7	99	24.2	97	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	31.9	128*	28.8	115	10	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.6	98	24.6	98	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.7	95	23.2	93	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	24.6	98	24.1	96	2	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	23.8	95	23.1	92	3	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	24.0	96	23.5	94	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.9	92	22.3	89	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.1	100	24.8	99	1	75-111/12
100-41-4	Ethylbenzene	ND		25	23.9	96	23.5	94	2	75-112/12
591-78-6	2-Hexanone	ND		125	104	83	92.0	74	12	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Compound	T65779-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	25.9	104	24.4	98	6	72-123/17
98-82-8	Isopropylbenzene	ND		25	28.2	113	27.1	108	4	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	24.7	99	23.9	96	3	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	104	83	94.6	76	9	63-115/21
74-83-9	Methyl bromide	ND		25	25.3	101	24.6	98	3	59-132/15
74-87-3	Methyl chloride	ND		25	24.5	98	24.2	97	1	56-150/17
74-95-3	Methylene bromide	ND		25	23.8	95	23.2	93	3	68-114/13
75-09-2	Methylene chloride	ND		25	21.0	84	20.8	83	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	102	82	91.5	73	11	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.0	84	20.3	81	3	65-113/13
91-20-3	Naphthalene	ND		25	18.5	74	16.7	67	10	53-127/34
103-65-1	n-Propylbenzene	ND		25	24.8	99	23.7	95	5	74-115/12
100-42-5	Styrene	ND		25	24.0	96	23.4	94	3	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.8	99	24.7	99	0	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.2	93	22.7	91	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.9	92	21.2	85	8	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	23.1	92	22.6	90	2	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	19.9	80	18.2	73	9	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	21.9	88	20.3	81	8	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.8	91	21.5	86	6	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.6	94	23.1	92	2	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.8	95	23.0	92	3	74-115/12
127-18-4	Tetrachloroethylene	ND		25	25.7	103	24.7	99	4	77-120/13
108-88-3	Toluene	ND		25	22.9	92	22.5	90	2	77-114/12
79-01-6	Trichloroethylene	ND		25	24.7	99	24.0	96	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	28.0	112	25.9	104	8	64-132/18
75-01-4	Vinyl chloride	ND		25	26.1	104	24.7	99	6	64-121/19
1330-20-7	Xylene (total)	ND		75	69.9	93	68.0	91	3	75-111/12
	m,p-Xylene	ND		50	46.8	94	45.5	91	3	75-112/12
95-47-6	o-Xylene	ND		25	23.1	92	22.5	90	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T65779-1	Limits
1868-53-7	Dibromofluoromethane	88%	90%	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	83%	82%	85%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T65779
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65779-1MS	X0068295.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1MSD	X0068296.D	1	12/30/10	NM	n/a	n/a	VX839
T65779-1	X0068294.D	1	12/30/10	NM	n/a	n/a	VX839

The QC reported here applies to the following samples: **Method:** SW846 8260B

T65779-1, T65779-2, T65779-3

CAS No.	Surrogate Recoveries	MS	MSD	T65779-1	Limits
2037-26-5	Toluene-D8	89%	89%	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	89%	90%	80-133%

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T65779
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	2.9		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.11		
Calcium	5000	7.4	25		
Chromium	10	.23	.27	0.24	<10
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.18	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.39		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	1.5		
Silver	10	1.2	1.2		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.72	<20

Associated samples MP13652: T65779-1, T65779-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T65779
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Metal	T65778-1 Original	DUP	RPD	QC Limits	T65778-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Prep Date:			12/28/10					12/28/10	
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	0.0	0.28	200.0(a)	0-20	0.0	420	400	105.0	70-130
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	12.7	12.6	0.8	0-20	12.7	407	400	98.6	70-130
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	3580	3640	1.7	0-20	3580	4110	400	132.5(b)	70-130

Associated samples MP13652: T65779-1, T65779-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T65779
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	T65778-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	0.0	420	400	105.0	0.0	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	12.7	405	400	98.1	0.5	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	3580	4100	400	130.0	0.2	20

Associated samples MP13652: T65779-1, T65779-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T65779
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	430	400	107.5	85-115
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	390	400	97.5	85-115
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	402	400	100.5	85-115

Associated samples MP13652: T65779-1, T65779-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T65779
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP13652
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 12/28/10

Metal	T65778-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	0.00	0.00	NC	0-7
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	12.7	12.6	0.5	0-7
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	3580	3430	4.0	0-7

Associated samples MP13652: T65779-1, T65779-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Gulf Coast ACCUTEST LABORATORIES

04/13/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T67995

Sampling Date: 01/27/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@49003 09:41 13-Apr-2011

Sample Summary

United Technology Corporation

Job No: T67995

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T67995-1	01/27/11	13:20	JO	01/28/11	AQ	Ground Water	MW62
T67995-2	01/27/11	12:40	JO	01/28/11	AQ	Ground Water	MW60

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T67995
Site:	XDD/UT Collierville/031091	**Report Date**	2/8/2011 9:50:22 AM

2 Sample(s) were collected on 01/27/2011 and were received at Accutest on 01/28/2011 properly preserved, at 5.1 Deg. C and intact. These Samples received an Accutest job number of T67995. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4142

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T67936-32MS, T67936-32MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T67995-1	**Date Sampled:**	01/27/11
Matrix:	AQ - Ground Water	**Date Received:**	01/28/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F031857.D	1	02/05/11	AK	n/a	n/a	VF4142
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T67995-1	**Date Sampled:**	01/27/11
Matrix:	AQ - Ground Water	**Date Received:**	01/28/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T67995-2	**Date Sampled:**	01/27/11
Matrix:	AQ - Ground Water	**Date Received:**	01/28/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F031858.D	1	02/05/11	AK	n/a	n/a	VF4142
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T67995-2	**Date Sampled:**	01/27/11
Matrix:	AQ - Ground Water	**Date Received:**	01/28/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	106%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T67995

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 S. CLEVE-MASS RD
City: ATRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: J. FRANK O'CONNELL JR

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA ROAD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #:

Requested Analysis: VOC 8021B

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2S2O3	MEOH	EnCore	VOC 8021B	LAB USE ONLY
1	MW 62		1-27-11	1320	JFO	GW	3	3								X	
2	MW 60		1-27-11	1240	JFO	GW	3	3								X	

JFO

Turnaround Time (Business Days)

- ☒ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@AOL.COM
BILL to KDP LLC ATTN BRUCE CLIFF

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1	1-27-11 1500	1 FED EX	2	01-27-11 1500	2
Relinquished by: 3 FEDEX	Date Time: 1/28-11 9:15	Received by:	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

4.1
4

T67995: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T67995 Client: SAS Environmental, Inc. Date/Time Received: 1-28-11 935

# of Coolers Received: 1 Thermometer #: IR GUN 04 Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 5.1°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 1-28-11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] DRA 1/28/11

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T67995: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T67995 DATE/TIME RECEIVED: 1-28-11 935

CLIENT: SAS Environmental Inc INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-62	1-27-11 1320	W	40ml	13	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW-60	↓ 1240	↓	↓	↓	↓	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

SC 1-28-11

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T67995: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4142-MB	F031844.D	1	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4142-MB	F031844.D	1	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	104%	80-133%

Blank Spike Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4142-BS	F031842.D	1	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	146	117	62-124
71-43-2	Benzene	25	24.7	99	76-118
75-27-4	Bromodichloromethane	25	22.5	90	68-107
75-25-2	Bromoform	25	21.9	88	64-103
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	27.1	108	75-135
67-66-3	Chloroform	25	22.6	90	75-117
75-15-0	Carbon disulfide	25	24.1	96	57-126
56-23-5	Carbon tetrachloride	25	24.8	99	75-125
75-34-3	1,1-Dichloroethane	25	23.9	96	76-121
75-35-4	1,1-Dichloroethylene	25	24.8	99	71-128
107-06-2	1,2-Dichloroethane	25	21.8	87	70-111
78-87-5	1,2-Dichloropropane	25	24.3	97	71-113
124-48-1	Dibromochloromethane	25	22.2	89	69-104
156-59-2	cis-1,2-Dichloroethylene	25	24.8	99	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.0	96	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.0	96	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	75-111
100-41-4	Ethylbenzene	25	23.0	92	75-112
591-78-6	2-Hexanone	125	133	106	60-113
108-10-1	4-Methyl-2-pentanone	125	129	103	63-115
74-83-9	Methyl bromide	25	27.6	110	59-132
74-87-3	Methyl chloride	25	28.0	112	56-150
75-09-2	Methylene chloride	25	21.3	85	70-113
78-93-3	Methyl ethyl ketone	125	142	114	62-117
100-42-5	Styrene	25	23.7	95	66-100
71-55-6	1,1,1-Trichloroethane	25	23.7	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	67-110
79-00-5	1,1,2-Trichloroethane	25	23.1	92	69-107
127-18-4	Tetrachloroethylene	25	25.0	100	77-120
108-88-3	Toluene	25	23.4	94	77-114
79-01-6	Trichloroethylene	25	23.7	95	74-117
75-01-4	Vinyl chloride	25	30.3	121	64-121
1330-20-7	Xylene (total)	75	69.7	93	75-111

Blank Spike Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4142-BS	F031842.D	1	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	75-121%
2037-26-5	Toluene-D8	101%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T67936-32MS	F031848.D	25	02/05/11	AK	n/a	n/a	VF4142
T67936-32MSD	F031849.D	25	02/05/11	AK	n/a	n/a	VF4142
T67936-32	F031847.D	25	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Compound	T67936-32 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3130	3340	107	3530	113	6	62-124/21
71-43-2	Benzene	ND		625	633	101	628	100	1	76-118/16
75-27-4	Bromodichloromethane	ND		625	593	95	559	89	6	68-107/12
75-25-2	Bromoform	ND		625	565	90	554	89	2	64-103/14
108-90-7	Chlorobenzene	ND		625	602	96	591	95	2	74-111/11
75-00-3	Chloroethane	29.7	J	625	668	102	694	106	4	75-135/15
67-66-3	Chloroform	ND		625	587	94	562	90	4	75-117/12
75-15-0	Carbon disulfide	ND		625	598	96	615	98	3	57-126/13
56-23-5	Carbon tetrachloride	ND		625	640	102	606	97	5	75-125/12
75-34-3	1,1-Dichloroethane	28.5	J	625	632	97	628	96	1	76-121/13
75-35-4	1,1-Dichloroethylene	76.6		625	726	104	714	102	2	71-128/19
107-06-2	1,2-Dichloroethane	2000		625	2550	88	2400	64* [a]	6	70-111/14
78-87-5	1,2-Dichloropropane	ND		625	644	103	623	100	3	71-113/12
124-48-1	Dibromochloromethane	ND		625	570	91	562	90	1	69-104/12
156-59-2	cis-1,2-Dichloroethylene	15.4	J	625	650	102	659	103	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		625	643	103	610	98	5	71-111/12
156-60-5	trans-1,2-Dichloroethylene	12.2	J	625	610	96	607	95	0	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		625	627	100	629	101	0	75-111/12
100-41-4	Ethylbenzene	21.8	J	625	613	95	599	92	2	75-112/12
591-78-6	2-Hexanone	ND		3130	3160	101	3320	106	5	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		3130	3200	102	3260	104	2	63-115/21
74-83-9	Methyl bromide	ND		625	636	102	656	105	3	59-132/15
74-87-3	Methyl chloride	ND		625	760	122	749	120	1	56-150/17
75-09-2	Methylene chloride	26.1	J	625	563	86	551	84	2	70-113/13
78-93-3	Methyl ethyl ketone	ND		3130	3090	99	3630	116	16	62-117/21
100-42-5	Styrene	ND		625	612	98	605	97	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		625	618	99	587	94	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	578	92	599	96	4	67-110/20
79-00-5	1,1,2-Trichloroethane	83.3		625	665	93	669	94	1	69-107/14
127-18-4	Tetrachloroethylene	ND		625	624	100	609	97	2	77-120/13
108-88-3	Toluene	2440		625	2910	75* [a]	2910	75* [a]	0	77-114/12
79-01-6	Trichloroethylene	ND		625	609	97	577	92	5	74-117/12
75-01-4	Vinyl chloride	231		625	969	118	970	118	0	64-121/19
1330-20-7	Xylene (total)	146	J	1880	1930	95	1890	93	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T67995
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T67936-32MS	F031848.D	25	02/05/11	AK	n/a	n/a	VF4142
T67936-32MSD	F031849.D	25	02/05/11	AK	n/a	n/a	VF4142
T67936-32	F031847.D	25	02/05/11	AK	n/a	n/a	VF4142

The QC reported here applies to the following samples: **Method:** SW846 8260B

T67995-1, T67995-2

CAS No.	Surrogate Recoveries	MS	MSD	T67936-32	Limits
1868-53-7	Dibromofluoromethane	99%	97%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	85%	100%	75-121%
2037-26-5	Toluene-D8	100%	102%	103%	87-119%
460-00-4	4-Bromofluorobenzene	95%	97%	105%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Gulf Coast ACCUTEST LABORATORIES

04/13/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T69803

Sampling Date: 02/23/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@49003 09:44 13-Apr-2011

Sample Summary

United Technology Corporation

Job No: T69803

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T69803-1	02/23/11	12:40		02/24/11	AQ	Effluent	WP2 EFF
T69803-2	02/23/11	12:45		02/24/11	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T69803
Site:	XDD/UT Collierville/031091	**Report Date**	3/10/2011 3:49:58 PM

2 Sample(s) were collected on 02/23/2011 and were received at Accutest on 02/24/2011 properly preserved, at 4.5 Deg. C and intact. These Samples received an Accutest job number of T69803. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ3125

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T69803-2MS, T69803-2MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T69803-1	**Date Sampled:**	02/23/11
Matrix:	AQ - Effluent	**Date Received:**	02/24/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z014454.D	1	02/25/11	NM	n/a	n/a	VZ3125
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T69803-1	**Date Sampled:**	02/23/11
Matrix:	AQ - Effluent	**Date Received:**	02/24/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T69803-2	**Date Sampled:**	02/23/11
Matrix:	AQ - Influent	**Date Received:**	02/24/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z014455.D	1	02/25/11	NM	n/a	n/a	VZ3125
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	43.7	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T69803-2	**Date Sampled:**	02/23/11
Matrix:	AQ - Influent	**Date Received:**	02/24/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	113%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T69803

Client / Reporting Information

Company Name	SAS ENVIRONMENTAL INC
Street Address	1270 S. CLEVE-MASS RD
City / State / Zip	AKRON OH 44321
Project Contact / E-mail	MARK V. ALLEN mallen@SASENVIRONMENTAL.com
Phone # / Fax #	330 666 1546 / 330 666 7443
Sampler(s) Name(s) / Phone #	JERANK OCONNELL Jr 330 666 1546

Project Information

Project Name:	UT COLLIERVILLE
Street	97 S. BYHALIA RD
City / State	COLLIERVILLE TN
Project #	031091
Client Purchase Order #	
Project Manager	MARK V. ALLEN

Billing Information (If different from Report to)

Company Name	XDD-UC
Street Address	22 MARIN WAY UNIT #3
City / State / Zip	STRATHAM NH 03885
Attention:	BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	2-23-11	1240	JFO	GW	3	3												X	
2	WP2 INF	2-23-11	1245	JFO	GW	3	3												X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labtink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
Email Results to JFO121@aol.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	2-23-11 / 1545	1 FED EX	2	2-23-11 / 1545	2
3 FEDEX	2-24-11 945	3 [signature]	4		4
5		5	Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 4.5°C

T69803: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T69803 Client: SAS Environmental Inc. Date/Time Received: 2-24-11 945

# of Coolers Received: 1 Thermometer #: PRGUN 04 Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 4.3°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: 2-24-11

INFORMATION AND SAMPLE LABELING VERIFIED BY: DRA 2/24/11

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T69803: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T69803 DATE/TIME RECEIVED: 2-24-11 945

CLIENT: SAS Environmental Inc. INITIALS: S C

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL.	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 Eff	2-23-11 1145	W	40	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	WP2 INF	↓ 1145	W	40	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
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								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

S C 2-24-11

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T69803: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3125-MB	Z014450.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3125-MB	Z014450.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Blank Spike Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3125-BS	Z014447.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	117	94	62-124
71-43-2	Benzene	25	25.3	101	76-118
75-27-4	Bromodichloromethane	25	24.5	98	68-107
75-25-2	Bromoform	25	20.1	80	64-103
108-90-7	Chlorobenzene	25	22.7	91	74-111
75-00-3	Chloroethane	25	28.0	112	75-135
67-66-3	Chloroform	25	23.9	96	75-117
75-15-0	Carbon disulfide	25	21.2	85	57-126
56-23-5	Carbon tetrachloride	25	27.7	111	75-125
75-34-3	1,1-Dichloroethane	25	25.1	100	76-121
75-35-4	1,1-Dichloroethylene	25	27.9	112	71-128
107-06-2	1,2-Dichloroethane	25	23.4	94	70-111
78-87-5	1,2-Dichloropropane	25	25.6	102	71-113
124-48-1	Dibromochloromethane	25	21.3	85	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.7	99	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.4	102	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.3	89	75-111
100-41-4	Ethylbenzene	25	22.7	91	75-112
591-78-6	2-Hexanone	125	88.5	71	60-113
108-10-1	4-Methyl-2-pentanone	125	102	82	63-115
74-83-9	Methyl bromide	25	26.5	106	59-132
74-87-3	Methyl chloride	25	26.2	105	56-150
75-09-2	Methylene chloride	25	23.2	93	70-113
78-93-3	Methyl ethyl ketone	125	118	94	62-117
100-42-5	Styrene	25	22.1	88	66-100
71-55-6	1,1,1-Trichloroethane	25	27.1	108	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	18.4	74	67-110
79-00-5	1,1,2-Trichloroethane	25	21.0	84	69-107
127-18-4	Tetrachloroethylene	25	24.3	97	77-120
108-88-3	Toluene	25	22.5	90	77-114
79-01-6	Trichloroethylene	25	26.3	105	74-117
75-01-4	Vinyl chloride	25	29.0	116	64-121
1330-20-7	Xylene (total)	75	65.7	88	75-111

Blank Spike Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3125-BS	Z014447.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	106%	87-119%
460-00-4	4-Bromofluorobenzene	88%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T69803-2MS	Z014456.D	1	02/25/11	NM	n/a	n/a	VZ3125
T69803-2MSD	Z014457.D	1	02/25/11	NM	n/a	n/a	VZ3125
T69803-2	Z014455.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Compound	T69803-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	128	102	112	90	13	62-124/21
71-43-2	Benzene	ND		25	24.8	99	24.9	100	0	76-118/16
75-27-4	Bromodichloromethane	ND		25	24.7	99	24.7	99	0	68-107/12
75-25-2	Bromoform	ND		25	20.8	83	19.2	77	8	64-103/14
108-90-7	Chlorobenzene	ND		25	21.9	88	21.8	87	0	74-111/11
75-00-3	Chloroethane	ND		25	30.3	121	27.8	111	9	75-135/15
67-66-3	Chloroform	ND		25	24.4	98	24.1	96	1	75-117/12
75-15-0	Carbon disulfide	ND		25	22.3	89	20.7	83	7	57-126/13
56-23-5	Carbon tetrachloride	ND		25	28.1	112	26.0	104	8	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	24.8	99	24.6	98	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	30.3	121	26.3	105	14	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	23.9	96	23.1	92	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	24.5	98	24.4	98	0	71-113/12
124-48-1	Dibromochloromethane	ND		25	20.8	83	20.5	82	1	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.8	107	26.6	106	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.9	100	24.6	98	1	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.1	108	25.6	102	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	21.8	87	21.2	85	3	75-111/12
100-41-4	Ethylbenzene	ND		25	21.6	86	21.9	88	1	75-112/12
591-78-6	2-Hexanone	ND		125	96.6	77	87.4	70	10	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	123	98	108	86	13	63-115/21
74-83-9	Methyl bromide	ND		25	27.3	109	25.3	101	8	59-132/15
74-87-3	Methyl chloride	ND		25	26.2	105	24.7	99	6	56-150/17
75-09-2	Methylene chloride	ND		25	22.6	90	21.4	86	5	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	126	101	110	88	14	62-117/21
100-42-5	Styrene	ND		25	21.9	88	21.3	85	3	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	26.5	106	24.9	100	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.0	80	18.6	74	7	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	20.8	83	20.7	83	0	69-107/14
127-18-4	Tetrachloroethylene	ND		25	23.2	93	22.6	90	3	77-120/13
108-88-3	Toluene	ND		25	21.9	88	21.4	86	2	77-114/12
79-01-6	Trichloroethylene	43.7		25	71.0	109	69.6	104	2	74-117/12
75-01-4	Vinyl chloride	ND		25	28.5	114	26.2	105	8	64-121/19
1330-20-7	Xylene (total)	ND		75	65.5	87	63.6	85	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T69803
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T69803-2MS	Z014456.D	1	02/25/11	NM	n/a	n/a	VZ3125
T69803-2MSD	Z014457.D	1	02/25/11	NM	n/a	n/a	VZ3125
T69803-2	Z014455.D	1	02/25/11	NM	n/a	n/a	VZ3125

The QC reported here applies to the following samples: **Method:** SW846 8260B

T69803-1, T69803-2

CAS No.	Surrogate Recoveries	MS	MSD	T69803-2	Limits
1868-53-7	Dibromofluoromethane	102%	101%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	101%	75-121%
2037-26-5	Toluene-D8	100%	104%	113%	87-119%
460-00-4	4-Bromofluorobenzene	90%	90%	90%	80-133%

Gulf Coast ACCUTEST LABORATORIES

04/13/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T70097

Sampling Date: 02/25/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Accutest LabLink@49003 09:45 13-Apr-2011

Sample Summary

United Technology Corporation

Job No: T70097

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T70097-1	02/25/11	12:05	JFO	03/01/11	AQ	Ground Water	MW60
T70097-2	02/25/11	12:40	JFO	03/01/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T70097
Site:	XDD/UT Collierville/031091	**Report Date**	3/10/2011 3:48:47 PM

2 Sample(s) were collected on 02/25/2011 and were received at Accutest on 03/01/2011 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of T70097. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ3135

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T70097-2MS, T70097-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,3,5-Trimethylbenzene, Styrene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,3,5-Trimethylbenzene, Styrene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T70097-1	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z014623.D	1	03/03/11	NM	n/a	n/a	VZ3135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T70097-1	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	92%		75-121%
2037-26-5	Toluene-D8	109%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T70097-1	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T70097-2	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z014624.D	1	03/03/11	NM	n/a	n/a	VZ3135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T70097-2	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	92%		75-121%
2037-26-5	Toluene-D8	111%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T70097-2	**Date Sampled:**	02/25/11
Matrix:	AQ - Ground Water	**Date Received:**	03/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T70097

Client / Reporting Information

Company Name: SASENVIRONMENTAL LLC
Street Address: 1270 S Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: Mark V. Allen E-mail: MAllen@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFrank OConnell Jr Phone #: 330 666 1546

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD-LLC
Project Manager: Mark V. Allen

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 Marin Way Unit #3
City: Stratham State: NH Zip: 03885
Attention: Bruce Cliff

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW60	2-25-11	1205	JFO	GW	3	3												X	
2	MW62	2-25-11	1240	JFO	GW	3	3												X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDART TAT - SAMPLED 02-25-11
Bill to XDD-LLC
EMAIL RESULTS to JFO121@GOL.COM

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	2-28-11/1325	1 FED EX	2 FEDEX	2-28-11/1325	2 ALGC [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☑ Cooler Temp. 2.0°C

4.1 4

T70097: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T70097 Client: SAS Environmental Inc. Date/Time Received: 3/1/11 1000

# of Coolers Received: 1 Thermometer #: #110 Temperature Adjustment Factor: -0.5°C

Cooler Temperatures (initial/adjusted): #1: 2.5/2.0°C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Damon Huddleston 3/1/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 3/1/11

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T70097: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T70097 DATE/TIME RECEIVED: 3/1/11 1000

CLIENT: SAS Environmental Inc. INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW60	2-25-11 1205	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW62	2-25-11 1240	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

DRA 3/1/11

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

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T70097: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-MB	Z014621.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-MB	Z014621.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	75-121%

Method Blank Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-MB	Z014621.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	113%	87-119%
460-00-4	4-Bromofluorobenzene	102%	80-133%

Blank Spike Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-BS	Z014618.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	62-124
71-43-2	Benzene	25	23.5	94	76-118
108-86-1	Bromobenzene	25	22.9	92	72-110
74-97-5	Bromochloromethane	25	23.6	94	69-110
75-27-4	Bromodichloromethane	25	24.4	98	68-107
75-25-2	Bromoform	25	22.9	92	64-103
104-51-8	n-Butylbenzene	25	25.6	102	74-114
135-98-8	sec-Butylbenzene	25	25.2	101	76-118
98-06-6	tert-Butylbenzene	25	24.7	99	72-116
108-90-7	Chlorobenzene	25	24.5	98	74-111
75-00-3	Chloroethane	25	27.4	110	75-135
67-66-3	Chloroform	25	23.6	94	75-117
95-49-8	o-Chlorotoluene	25	24.4	98	74-113
106-43-4	p-Chlorotoluene	25	24.6	98	72-114
75-15-0	Carbon disulfide	25	22.0	88	57-126
56-23-5	Carbon tetrachloride	25	24.8	99	75-125
75-34-3	1,1-Dichloroethane	25	24.6	98	76-121
75-35-4	1,1-Dichloroethylene	25	24.4	98	71-128
563-58-6	1,1-Dichloropropene	25	24.9	100	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.5	82	55-121
106-93-4	1,2-Dibromoethane	25	23.1	92	69-106
107-06-2	1,2-Dichloroethane	25	23.0	92	70-111
78-87-5	1,2-Dichloropropane	25	25.1	100	71-113
142-28-9	1,3-Dichloropropane	25	22.2	89	69-106
594-20-7	2,2-Dichloropropane	25	25.1	100	68-130
124-48-1	Dibromochloromethane	25	24.4	98	69-104
75-71-8	Dichlorodifluoromethane	25	25.8	103	28-120
156-59-2	cis-1,2-Dichloroethylene	25	26.0	104	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	71-111
541-73-1	m-Dichlorobenzene	25	23.8	95	74-110
95-50-1	o-Dichlorobenzene	25	24.2	97	72-108
106-46-7	p-Dichlorobenzene	25	23.9	96	74-110
156-60-5	trans-1,2-Dichloroethylene	25	24.7	99	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.7	103	75-111
100-41-4	Ethylbenzene	25	24.3	97	75-112
591-78-6	2-Hexanone	125	108	86	60-113

Blank Spike Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-BS	Z014618.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	27.8	111	72-123
98-82-8	Isopropylbenzene	25	27.7	111	75-123
99-87-6	p-Isopropyltoluene	25	24.5	98	76-116
108-10-1	4-Methyl-2-pentanone	125	115	92	63-115
74-83-9	Methyl bromide	25	26.7	107	59-132
74-87-3	Methyl chloride	25	27.1	108	56-150
74-95-3	Methylene bromide	25	22.9	92	68-114
75-09-2	Methylene chloride	25	21.4	86	70-113
78-93-3	Methyl ethyl ketone	125	112	90	62-117
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	65-113
91-20-3	Naphthalene	25	23.8	95	53-127
103-65-1	n-Propylbenzene	25	24.7	99	74-115
100-42-5	Styrene	25	24.5	98	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	24.3	97	72-108
71-55-6	1,1,1-Trichloroethane	25	23.8	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.4	86	67-110
79-00-5	1,1,2-Trichloroethane	25	23.0	92	69-107
87-61-6	1,2,3-Trichlorobenzene	25	24.8	99	51-128
96-18-4	1,2,3-Trichloropropane	25	21.1	84	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.9	96	63-114
95-63-6	1,2,4-Trimethylbenzene	25	24.4	98	73-111
108-67-8	1,3,5-Trimethylbenzene	25	27.7	111	74-115
127-18-4	Tetrachloroethylene	25	24.5	98	77-120
108-88-3	Toluene	25	23.4	94	77-114
79-01-6	Trichloroethylene	25	24.0	96	74-117
75-69-4	Trichlorofluoromethane	25	25.3	101	64-132
75-01-4	Vinyl chloride	25	25.1	100	64-121
1330-20-7	Xylene (total)	75	72.4	97	75-111
	m,p-Xylene	50	48.6	97	75-112
95-47-6	o-Xylene	25	23.8	95	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%

Blank Spike Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3135-BS	Z014618.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T70097-2MS	Z014625.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2MSD	Z014626.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2	Z014624.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	T70097-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	94.6	76	83.4	67	13	62-124/21
71-43-2	Benzene	ND		25	24.5	98	24.3	97	1	76-118/16
108-86-1	Bromobenzene	ND		25	24.0	96	24.1	96	0	72-110/12
74-97-5	Bromochloromethane	ND		25	23.1	92	23.1	92	0	69-110/12
75-27-4	Bromodichloromethane	ND		25	24.6	98	25.1	100	2	68-107/12
75-25-2	Bromoform	ND		25	21.9	88	20.1	80	9	64-103/14
104-51-8	n-Butylbenzene	ND		25	26.8	107	27.0	108	1	74-114/12
135-98-8	sec-Butylbenzene	ND		25	26.4	106	26.3	105	0	76-118/12
98-06-6	tert-Butylbenzene	ND		25	26.3	105	26.4	106	0	72-116/14
108-90-7	Chlorobenzene	ND		25	26.0	104	25.0	100	4	74-111/11
75-00-3	Chloroethane	ND		25	27.0	108	26.6	106	1	75-135/15
67-66-3	Chloroform	ND		25	24.3	97	24.8	99	2	75-117/12
95-49-8	o-Chlorotoluene	ND		25	26.0	104	26.1	104	0	74-113/12
106-43-4	p-Chlorotoluene	ND		25	26.4	106	26.3	105	0	72-114/12
75-15-0	Carbon disulfide	ND		25	23.4	94	22.8	91	3	57-126/13
56-23-5	Carbon tetrachloride	ND		25	26.7	107	26.5	106	1	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.6	102	24.8	99	3	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	26.4	106	25.1	100	5	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	27.8	111	26.8	107	4	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	19.5	78	18.1	72	7	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	22.1	88	21.8	87	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	22.5	90	22.2	89	1	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.8	103	25.5	102	1	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	23.1	92	21.9	88	5	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	28.4	114	26.6	106	7	68-130/14
124-48-1	Dibromochloromethane	ND		25	24.6	98	23.4	94	5	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	26.5	106	25.6	102	3	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.0	108	27.0	108	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.9	100	25.1	100	1	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	25.9	104	25.6	102	1	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	25.0	100	24.7	99	1	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	24.9	100	25.0	100	0	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.8	103	25.0	100	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.5	102	24.8	99	3	75-111/12
100-41-4	Ethylbenzene	ND		25	26.0	104	25.0	100	4	75-112/12
591-78-6	2-Hexanone	ND		125	101	81	89.8	72	12	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T70097-2MS	Z014625.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2MSD	Z014626.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2	Z014624.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Compound	T70097-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	26.9	108	28.0	112	4	72-123/17
98-82-8	Isopropylbenzene	ND		25	30.5	122	30.3	121	1	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	26.2	105	26.3	105	0	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	108	86	98.0	78	10	63-115/21
74-83-9	Methyl bromide	ND		25	24.5	98	25.1	100	2	59-132/15
74-87-3	Methyl chloride	ND		25	25.9	104	26.0	104	0	56-150/17
74-95-3	Methylene bromide	ND		25	22.6	90	22.5	90	0	68-114/13
75-09-2	Methylene chloride	ND		25	20.1	80	20.1	80	0	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	101	81	90.8	73	11	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.4	86	19.5	78	9	65-113/13
91-20-3	Naphthalene	ND		25	20.8	83	21.4	86	3	53-127/34
103-65-1	n-Propylbenzene	ND		25	26.5	106	26.5	106	0	74-115/12
100-42-5	Styrene	ND		25	25.9	104*	25.8	103*	0	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	25.5	102	24.8	99	3	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	26.1	104	26.1	104	0	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.0	84	19.3	77	8	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	23.2	93	22.3	89	4	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	21.2	85	22.6	90	6	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	20.7	83	19.7	79	5	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.9	92	23.9	96	4	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	25.9	104	26.2	105	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	30.5	122*	30.3	121*	1	74-115/12
127-18-4	Tetrachloroethylene	ND		25	27.3	109	26.1	104	4	77-120/13
108-88-3	Toluene	ND		25	26.0	104	25.4	102	2	77-114/12
79-01-6	Trichloroethylene	ND		25	25.8	103	25.6	102	1	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	28.0	112	25.5	102	9	64-132/18
75-01-4	Vinyl chloride	ND		25	25.5	102	24.7	99	3	64-121/19
1330-20-7	Xylene (total)	ND		75	76.6	102	75.0	100	2	75-111/12
	m,p-Xylene	ND		50	51.3	103	49.9	100	3	75-112/12
95-47-6	o-Xylene	ND		25	25.3	101	25.1	100	1	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T70097-2	Limits
1868-53-7	Dibromofluoromethane	95%	97%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	85%	92%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T70097
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T70097-2MS	Z014625.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2MSD	Z014626.D	1	03/03/11	NM	n/a	n/a	VZ3135
T70097-2	Z014624.D	1	03/03/11	NM	n/a	n/a	VZ3135

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70097-1, T70097-2

CAS No.	Surrogate Recoveries	MS	MSD	T70097-2	Limits
2037-26-5	Toluene-D8	109%	108%	111%	87-119%
460-00-4	4-Bromofluorobenzene	102%	105%	107%	80-133%

Gulf Coast ACCUTEST LABORATORIES

05/05/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T70396

Sampling Date: 11/10/10

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **18**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Accutest LabLink@49410 13:31 05-May-2011

Sample Summary

United Technology Corporation

Job No: T70396

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T70396-1	11/10/10	14:45	4.4	03/04/11	AQ	Ground Water	WP2 EFF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T70396
Site:	XDD/UT Collierville/031091	**Report Date**	3/7/2011 3:04:32 PM

1 Sample(s) were collected on 11/10/2010 and were received at Accutest on 03/04/2011 properly preserved, at 4.4 Deg. C and intact. These Samples received an Accutest job number of T70396. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VC679

- All method blanks for this batch meet method specific criteria.
- Sample(s) T70028-1MS, T70028-1MSD were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: T70396-1 Sample received outside the holding time.
- Blank Spike Recovery(s) for Bromoform are outside control limits.
- Matrix Spike Recovery(s) for Bromoform are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromoform are outside control limits. Probable cause due to matrix interference.
- T70396-1: Sample received outside the holding time.
- VC679-MB for Methylene chloride: Suspected laboratory contaminant.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T70396-1	**Date Sampled:**	11/10/10
Matrix:	AQ - Ground Water	**Date Received:**	03/04/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C0015458.D	1	03/04/11	AK	n/a	n/a	VC679
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T70396-1	**Date Sampled:**	11/10/10
Matrix:	AQ - Ground Water	**Date Received:**	03/04/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

(a) Sample received outside the holding time.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

RUSH 24 HR TAT

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T70396

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.INC
Phone #: 330 666 1546 Fax #: 330 666 1546
Sampler(s) Name(s): JOHN K. O'CONNELL JR Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA ROAD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: BILL to XDD-LLC
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	11-10-10	1445	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] Day EMERGENCY

Approved By (Accutest PM): / Date:
Sylvia Garza 3-3-11

Emergency & Rush T/A data available VIA Labilink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in UNDER UTC
RUSH 24 HR TAT - RUN OUT RUSH
EMAIL RESULTS TO JFO121@AOL
BILL TO XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	3-3-11 / 1520	1 FEDEX	2 FEDEX	3-3-11 / 1520	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 FEDEX	3-4-11 920	3 [signature]	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.
5		5	☐ Intact ☐ Not Intact	☐	X 4 4°C

FED EX Air Bill #8658 9748 1395

T70396: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T70396 Client: SAS Environmental Date/Time Received: 3-4-11 920

# of Coolers Received: 1 Thermometer #: FR Gun04 Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 4.4 °C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies: ① Sample Collected on 11-10-10 / 1445

TECHNICIAN SIGNATURE/DATE: [signature] 3-4-11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] DRA 3/4/11

CORRECTIVE ACTIONS

Client Representative Notified: Frank Ocurnal **Date:** 3-3-11

By Accutest Representative: Sylvia Garza **Via:** Phone Email

Client Instructions: Proceed w/ analysis

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

4.1

4

T70396: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T70396 DATE/TIME RECEIVED: 3-4-11 920

CLIENT: SAS Environmental INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WP2 SEF	~~3-4-11 920~~ SC	W	40ml	1-3	VR	1 2 3 4 5 6 7 8	<2	>12
			1410-10 MYS					1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

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T70396: Chain of Custody

Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC679-MB	C0015449.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride [a]	0.77	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC679-MB	C0015449.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

(a) Suspected laboratory contaminant.

Blank Spike Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC679-BS	C0015445.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	127	102	62-124
71-43-2	Benzene	25	24.5	98	76-118
75-27-4	Bromodichloromethane	25	25.3	101	68-107
75-25-2	Bromoform	25	26.4	106* [a]	64-103
108-90-7	Chlorobenzene	25	24.0	96	74-111
75-00-3	Chloroethane	25	28.0	112	75-135
67-66-3	Chloroform	25	24.8	99	75-117
75-15-0	Carbon disulfide	25	22.2	89	57-126
56-23-5	Carbon tetrachloride	25	30.0	120	75-125
75-34-3	1,1-Dichloroethane	25	24.7	99	76-121
75-35-4	1,1-Dichloroethylene	25	27.4	110	71-128
107-06-2	1,2-Dichloroethane	25	25.4	102	70-111
78-87-5	1,2-Dichloropropane	25	23.5	94	71-113
124-48-1	Dibromochloromethane	25	25.7	103	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.7	107	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.0	100	71-111
156-60-5	trans-1,2-Dichloroethylene	25	25.1	100	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	75-111
100-41-4	Ethylbenzene	25	24.3	97	75-112
591-78-6	2-Hexanone	125	116	93	60-113
108-10-1	4-Methyl-2-pentanone	125	123	98	63-115
74-83-9	Methyl bromide	25	28.1	112	59-132
74-87-3	Methyl chloride	25	27.6	110	56-150
75-09-2	Methylene chloride	25	23.7	95	70-113
78-93-3	Methyl ethyl ketone	125	123	98	62-117
100-42-5	Styrene	25	24.2	97	66-100
71-55-6	1,1,1-Trichloroethane	25	27.6	110	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	67-110
79-00-5	1,1,2-Trichloroethane	25	23.2	93	69-107
127-18-4	Tetrachloroethylene	25	25.9	104	77-120
108-88-3	Toluene	25	24.2	97	77-114
79-01-6	Trichloroethylene	25	25.0	100	74-117
75-01-4	Vinyl chloride	25	27.5	110	64-121
1330-20-7	Xylene (total)	75	73.3	98	75-111

Blank Spike Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC679-BS	C0015445.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	93%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T70028-1MS	C0015455.D	1	03/04/11	AK	n/a	n/a	VC679
T70028-1MSD	C0015456.D	1	03/04/11	AK	n/a	n/a	VC679
T70028-1	C0015451.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Compound	T70028-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	126	101	132	106	5	62-124/21
71-43-2	Benzene	2.0 U		25	25.4	102	24.2	97	5	76-118/16
75-27-4	Bromodichloromethane	2.0 U		25	26.0	104	25.1	100	4	68-107/12
75-25-2	Bromoform	2.0 U		25	26.2	105*	26.4	106*	1	64-103/14
108-90-7	Chlorobenzene	2.0 U		25	24.7	99	24.6	98	0	74-111/11
75-00-3	Chloroethane	2.0 U		25	30.4	122	30.2	121	1	75-135/15
67-66-3	Chloroform	2.0 U		25	26.0	104	24.7	99	5	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	23.3	93	22.2	89	5	57-126/13
56-23-5	Carbon tetrachloride	2.0 U		25	30.1	120	28.9	116	4	75-125/12
75-34-3	1,1-Dichloroethane	0.80	J	25	25.3	98	24.6	95	3	76-121/13
75-35-4	1,1-Dichloroethylene	3.1		25	32.0	116	29.9	107	7	71-128/19
107-06-2	1,2-Dichloroethane	2.0 U		25	26.0	104	25.6	102	2	70-111/14
78-87-5	1,2-Dichloropropane	2.0 U		25	24.0	96	23.3	93	3	71-113/12
124-48-1	Dibromochloromethane	2.0 U		25	25.6	102	25.7	103	0	69-104/12
156-59-2	cis-1,2-Dichloroethylene	2.6		25	29.4	107	28.5	104	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	25.2	101	24.5	98	3	71-111/12
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	25.9	104	24.5	98	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	26.1	104	26.4	106	1	75-111/12
100-41-4	Ethylbenzene	2.0 U		25	24.7	99	23.9	96	3	75-112/12
591-78-6	2-Hexanone	10 U		125	117	94	129	103	10	60-113/18
108-10-1	4-Methyl-2-pentanone	10 U		125	127	102	134	107	5	63-115/21
74-83-9	Methyl bromide	2.0 U		25	27.6	110	27.8	111	1	59-132/15
74-87-3	Methyl chloride	2.0 U		25	26.2	105	27.5	110	5	56-150/17
75-09-2	Methylene chloride	5.0 U		25	22.7	91	21.7	87	5	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	121	97	128	102	6	62-117/21
100-42-5	Styrene	2.0 U		25	24.7	99	24.3	97	2	66-100/11
71-55-6	1,1,1-Trichloroethane	2.0 U		25	28.8	115	27.0	108	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		25	23.0	92	24.1	96	5	67-110/20
79-00-5	1,1,2-Trichloroethane	2.0 U		25	23.7	95	23.8	95	0	69-107/14
127-18-4	Tetrachloroethylene	2.0 U		25	25.6	102	24.8	99	3	77-120/13
108-88-3	Toluene	2.0 U		25	25.0	100	24.6	98	2	77-114/12
79-01-6	Trichloroethylene	2.0 U		25	25.8	103	25.2	101	2	74-117/12
75-01-4	Vinyl chloride	10.5		25	39.5	116	37.4	108	5	64-121/19
1330-20-7	Xylene (total)	6.0 U		75	75.1	100	73.6	98	2	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T70396
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T70028-1MS	C0015455.D	1	03/04/11	AK	n/a	n/a	VC679
T70028-1MSD	C0015456.D	1	03/04/11	AK	n/a	n/a	VC679
T70028-1	C0015451.D	1	03/04/11	AK	n/a	n/a	VC679

The QC reported here applies to the following samples: **Method:** SW846 8260B

T70396-1

CAS No.	Surrogate Recoveries	MS	MSD	T70028-1	Limits
1868-53-7	Dibromofluoromethane	106%	104%	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	105%	75-121%
2037-26-5	Toluene-D8	100%	100%	103%	87-119%
460-00-4	4-Bromofluorobenzene	93%	93%	92%	80-133%

Gulf Coast ACCUTEST LABORATORIES

04/13/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T71823

Sampling Date: 03/22/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **37**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@49003 09:47 13-Apr-2011

Sample Summary

United Technology Corporation

Job No: T71823

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T71823-1	03/22/11	11:00	JO	03/23/11	AQ	Ground Water	MW4
T71823-2	03/22/11	12:50	JO	03/23/11	AQ	Ground Water	MW10
T71823-3	03/22/11	12:15	JO	03/23/11	AQ	Ground Water	MW31R

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T71823
Site:	XDD/UT Collierville/031091	**Report Date**	4/7/2011 3:32:46 PM

3 Sample(s) were collected on 03/22/2011 and were received at Accutest on 03/23/2011 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T71823. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4191

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T71823-1MS, T71823-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene, Trichloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP14300

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T71823-1DUP, T71823-1MS, T71823-1MSD, T71823-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP14300-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T71823-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
Run #2	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	ND	10	ug/l	
108-86-1	Bromobenzene	ND	10	ug/l	
74-97-5	Bromochloromethane	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	10	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2790 [a]	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T71823-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	17.7	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	10	ug/l	
74-87-3	Methyl chloride	ND	10	ug/l	
74-95-3	Methylene bromide	ND	10	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
91-20-3	Naphthalene	ND	25	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
79-01-6	Trichloroethylene	3170 [a]	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	10	ug/l	
1330-20-7	Xylene (total)	ND	30	ug/l	
	m,p-Xylene	ND	20	ug/l	
95-47-6	o-Xylene	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	115%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	111%	75-121%
2037-26-5	Toluene-D8	111%	112%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T71823-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T71823-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	8.4	3.0	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	1160	20	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5619
(2) Prep QC Batch: MP14300

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T71823-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032964.D	20	03/31/11	AK	n/a	n/a	VF4191
Run #2	F032959.D	250	03/30/11	AK	n/a	n/a	VF4191

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	40	ug/l	
108-86-1	Bromobenzene	ND	40	ug/l	
74-97-5	Bromochloromethane	ND	40	ug/l	
75-27-4	Bromodichloromethane	ND	40	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
104-51-8	n-Butylbenzene	ND	40	ug/l	
135-98-8	sec-Butylbenzene	ND	40	ug/l	
98-06-6	tert-Butylbenzene	ND	40	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	40	ug/l	
67-66-3	Chloroform	ND	40	ug/l	
95-49-8	o-Chlorotoluene	ND	40	ug/l	
106-43-4	p-Chlorotoluene	ND	40	ug/l	
75-15-0	Carbon disulfide	ND	40	ug/l	
56-23-5	Carbon tetrachloride	ND	40	ug/l	
75-34-3	1,1-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethylene	ND	40	ug/l	
563-58-6	1,1-Dichloropropene	ND	40	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	ug/l	
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
78-87-5	1,2-Dichloropropane	ND	40	ug/l	
142-28-9	1,3-Dichloropropane	ND	40	ug/l	
594-20-7	2,2-Dichloropropane	ND	40	ug/l	
124-48-1	Dibromochloromethane	ND	40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	185	40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	40	ug/l	
541-73-1	m-Dichlorobenzene	ND	40	ug/l	
95-50-1	o-Dichlorobenzene	ND	40	ug/l	
106-46-7	p-Dichlorobenzene	ND	40	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T71823-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	40	ug/l	
100-41-4	Ethylbenzene	ND	40	ug/l	
591-78-6	2-Hexanone	ND	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	ug/l	
98-82-8	Isopropylbenzene	ND	40	ug/l	
99-87-6	p-Isopropyltoluene	ND	40	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	200	ug/l	
74-83-9	Methyl bromide	ND	40	ug/l	
74-87-3	Methyl chloride	ND	40	ug/l	
74-95-3	Methylene bromide	ND	40	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	40	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	40	ug/l	
100-42-5	Styrene	ND	40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	ug/l	
127-18-4	Tetrachloroethylene	ND	40	ug/l	
108-88-3	Toluene	ND	40	ug/l	
79-01-6	Trichloroethylene	31500 [a]	500	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	ug/l	
75-01-4	Vinyl chloride	ND	40	ug/l	
1330-20-7	Xylene (total)	ND	120	ug/l	
	m,p-Xylene	ND	80	ug/l	
95-47-6	o-Xylene	ND	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	114%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	106%	75-121%
2037-26-5	Toluene-D8	109%	114%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T71823-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	103%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T71823-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	16.3	3.0	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5619
(2) Prep QC Batch: MP14300

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T71823-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032960.D	1	03/30/11	AK	n/a	n/a	VF4191
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.1	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T71823-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.6	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	113%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T71823-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T71823-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	19.5	3.0	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	133	20	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5619
(2) Prep QC Batch: MP14300

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T71823

Client / Reporting Information

Company Name: GES ENVIRONMENTAL INC
Street Address: 1270 S. CLEVE. MASS RD
City / State / Zip: ALBION OH 44321
Project Contact / E-mail: MARK ALLEN mike@kellyenvironmental.com
Phone #: 330 686 1546 Fax #: 330 686 7443
Sampler(s) Name(s) / Phone #: JOHN O'DONNELL JR 330 686 1546

Project Information

Project Name: UT BRIDGEVILLE
Street: 97 S. BUNKER ROAD
City / State: BRIDGEVILLE TN
Project #: 031041
Client Purchase Order #: Bill to XDD-LLC
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City / State / Zip: STRATHAM NH 03885
Attention: BRUCE CUFF

Requested Analyses

VOC 8260 FULL LIST
LEAD / ZINC

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 FULL LIST	LEAD / ZINC	LAB USE ONLY
1	MW-4	3-22-11	1100	JFO	GW	4	3			1									X	X	
2	MW-10	3-22-11	1250	JFO	GW	4	3			1									X	X	
3	MW 31R	3-22-11	1215	JFO	GW	4	3			1									X	X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Leblink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS TO JFAIZI@GES.COM
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	3-22-11 / 1700	1 FEDEX	2 FEDEX 3/23/11 09:45	3-22-11 / 1700	2 3/23/11 0945
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice ☑ Cooler Temp. 1.4°C

T71823: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T71823 Client: SAS Environmental XDD - LLC Date/Time Received: 3/23/11 0945

# of Coolers Received: 1 Thermometer #: #110 Temperature Adjustment Factor: -0.5°C

Cooler Temperatures (initial/adjusted): #1: 1.9/1.4°C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [x] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Daniel Huddleston 3/23/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [illegible] 3/23/11

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

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T71823: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T71823 DATE/TIME RECEIVED: 3/23/11 0945

CLIENT: XDD-LLC SAS Environmental INITIALS: DRH

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-4	3-22-11 1100	W	500ml	1	1BB	1 2 (3) 4 5 6 7 8	(<2) >12
	1	↓	↓		40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	2	MW-10	1250		500ml	1	1BB	1 2 (3) 4 5 6 7 8	(<2) >12
	2	↓	↓		40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
	3	MW-31R	1215		500ml	1	1BB	1 2 (3) 4 5 6 7 8	(<2) >12
↓	3	↓	↓	↓	40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			DRH					1 2 3 4 5 6 7 8	<2 >12
			3/23/11					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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T71823: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	75-121%

Method Blank Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	112%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

Blank Spike Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	62-124
71-43-2	Benzene	25	25.7	103	76-118
108-86-1	Bromobenzene	25	24.1	96	72-110
74-97-5	Bromochloromethane	25	24.6	98	69-110
75-27-4	Bromodichloromethane	25	24.6	98	68-107
75-25-2	Bromoform	25	23.2	93	64-103
104-51-8	n-Butylbenzene	25	24.2	97	74-114
135-98-8	sec-Butylbenzene	25	21.4	86	76-118
98-06-6	tert-Butylbenzene	25	25.2	101	72-116
108-90-7	Chlorobenzene	25	24.9	100	74-111
75-00-3	Chloroethane	25	27.8	111	75-135
67-66-3	Chloroform	25	24.9	100	75-117
95-49-8	o-Chlorotoluene	25	23.3	93	74-113
106-43-4	p-Chlorotoluene	25	24.9	100	72-114
75-15-0	Carbon disulfide	25	26.7	107	57-126
56-23-5	Carbon tetrachloride	25	28.3	113	75-125
75-34-3	1,1-Dichloroethane	25	26.5	106	76-121
75-35-4	1,1-Dichloroethylene	25	29.1	116	71-128
563-58-6	1,1-Dichloropropene	25	27.5	110	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.5	86	55-121
106-93-4	1,2-Dibromoethane	25	24.2	97	69-106
107-06-2	1,2-Dichloroethane	25	24.2	97	70-111
78-87-5	1,2-Dichloropropane	25	24.8	99	71-113
142-28-9	1,3-Dichloropropane	25	23.7	95	69-106
594-20-7	2,2-Dichloropropane	25	25.5	102	68-130
124-48-1	Dibromochloromethane	25	23.7	95	69-104
75-71-8	Dichlorodifluoromethane	25	27.7	111	28-120
156-59-2	cis-1,2-Dichloroethylene	25	27.3	109	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	71-111
541-73-1	m-Dichlorobenzene	25	24.2	97	74-110
95-50-1	o-Dichlorobenzene	25	23.8	95	72-108
106-46-7	p-Dichlorobenzene	25	23.9	96	74-110
156-60-5	trans-1,2-Dichloroethylene	25	26.6	106	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	75-111
100-41-4	Ethylbenzene	25	24.1	96	75-112
591-78-6	2-Hexanone	125	114	91	60-113

Blank Spike Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	30.3	121	72-123
98-82-8	Isopropylbenzene	25	29.4	118	75-123
99-87-6	p-Isopropyltoluene	25	24.8	99	76-116
108-10-1	4-Methyl-2-pentanone	125	113	90	63-115
74-83-9	Methyl bromide	25	26.6	106	59-132
74-87-3	Methyl chloride	25	24.7	99	56-150
74-95-3	Methylene bromide	25	23.6	94	68-114
75-09-2	Methylene chloride	25	23.8	95	70-113
78-93-3	Methyl ethyl ketone	125	115	92	62-117
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	65-113
91-20-3	Naphthalene	25	22.2	89	53-127
103-65-1	n-Propylbenzene	25	24.2	97	74-115
100-42-5	Styrene	25	25.2	101* [a]	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	24.8	99	72-108
71-55-6	1,1,1-Trichloroethane	25	27.0	108	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.9	92	67-110
79-00-5	1,1,2-Trichloroethane	25	24.2	97	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	51-128
96-18-4	1,2,3-Trichloropropane	25	23.3	93	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.1	92	63-114
95-63-6	1,2,4-Trimethylbenzene	25	24.2	97	73-111
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	74-115
127-18-4	Tetrachloroethylene	25	27.1	108	77-120
108-88-3	Toluene	25	25.1	100	77-114
79-01-6	Trichloroethylene	25	25.8	103	74-117
75-69-4	Trichlorofluoromethane	25	26.8	107	64-132
75-01-4	Vinyl chloride	25	27.1	108	64-121
1330-20-7	Xylene (total)	75	73.3	98	75-111
	m,p-Xylene	50	49.7	99	75-112
95-47-6	o-Xylene	25	23.6	94	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	116%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%

Blank Spike Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	114%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	T71823-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	34.4		3130	2930	93	3320	105	12	62-124/21
71-43-2	Benzene	ND		625	598	96	596	95	0	76-118/16
108-86-1	Bromobenzene	ND		625	547	88	553	88	1	72-110/12
74-97-5	Bromochloromethane	ND		625	562	90	576	92	2	69-110/12
75-27-4	Bromodichloromethane	ND		625	570	91	581	93	2	68-107/12
75-25-2	Bromoform	ND		625	537	86	563	90	5	64-103/14
104-51-8	n-Butylbenzene	ND		625	560	90	567	91	1	74-114/12
135-98-8	sec-Butylbenzene	ND		625	492	79	487	78	1	76-118/12
98-06-6	tert-Butylbenzene	ND		625	588	94	595	95	1	72-116/14
108-90-7	Chlorobenzene	ND		625	576	92	575	92	0	74-111/11
75-00-3	Chloroethane	ND		625	618	99	622	100	1	75-135/15
67-66-3	Chloroform	ND		625	587	94	581	93	1	75-117/12
95-49-8	o-Chlorotoluene	ND		625	536	86	538	86	0	74-113/12
106-43-4	p-Chlorotoluene	ND		625	563	90	568	91	1	72-114/12
75-15-0	Carbon disulfide	ND		625	610	98	616	99	1	57-126/13
56-23-5	Carbon tetrachloride	ND		625	671	107	670	107	0	75-125/12
75-34-3	1,1-Dichloroethane	ND		625	612	98	615	98	0	76-121/13
75-35-4	1,1-Dichloroethylene	3.5		625	675	107	680	108	1	71-128/19
563-58-6	1,1-Dichloropropene	ND		625	641	103	654	105	2	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		625	480	77	574	92	18	55-121/33
106-93-4	1,2-Dibromoethane	ND		625	542	87	585	94	8	69-106/13
107-06-2	1,2-Dichloroethane	ND		625	579	93	587	94	1	70-111/14
78-87-5	1,2-Dichloropropane	ND		625	586	94	576	92	2	71-113/12
142-28-9	1,3-Dichloropropane	ND		625	543	87	572	92	5	69-106/12
594-20-7	2,2-Dichloropropane	ND		625	609	97	541	87	12	68-130/14
124-48-1	Dibromochloromethane	ND		625	552	88	570	91	3	69-104/12
75-71-8	Dichlorodifluoromethane	ND		625	664	106	679	109	2	28-120/21
156-59-2	cis-1,2-Dichloroethylene	2790 [b]		625	3180	62* [a]	3200	66* [a]	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		625	564	90	574	92	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		625	555	89	559	89	1	74-110/12
95-50-1	o-Dichlorobenzene	ND		625	551	88	564	90	2	72-108/12
106-46-7	p-Dichlorobenzene	ND		625	548	88	559	89	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	17.7		625	628	98	634	99	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		625	598	96	598	96	0	75-111/12
100-41-4	Ethylbenzene	ND		625	568	91	563	90	1	75-112/12
591-78-6	2-Hexanone	ND		3130	2480	79	2900	93	16	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Compound	T71823-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		625	582	93	636	102	9	72-123/17
98-82-8	Isopropylbenzene	ND		625	659	105	673	108	2	75-123/12
99-87-6	p-Isopropyltoluene	ND		625	568	91	562	90	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		3130	2510	80	2980	95	17	63-115/21
74-83-9	Methyl bromide	ND		625	594	95	608	97	2	59-132/15
74-87-3	Methyl chloride	ND		625	564	90	591	95	5	56-150/17
74-95-3	Methylene bromide	ND		625	559	89	591	95	6	68-114/13
75-09-2	Methylene chloride	ND		625	551	88	562	90	2	70-113/13
78-93-3	Methyl ethyl ketone	ND		3130	2560	82	3050	98	17	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		625	520	83	567	91	9	65-113/13
91-20-3	Naphthalene	ND		625	486	78	570	91	16	53-127/34
103-65-1	n-Propylbenzene	ND		625	536	86	550	88	3	74-115/12
100-42-5	Styrene	ND		625	584	93	577	92	1	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		625	582	93	570	91	2	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		625	645	103	640	102	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	503	80	570	91	12	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		625	554	89	584	93	5	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		625	487	78	551	88	12	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		625	502	80	554	89	10	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		625	509	81	546	87	7	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		625	551	88	552	88	0	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		625	556	89	558	89	0	74-115/12
127-18-4	Tetrachloroethylene	ND		625	619	99	618	99	0	77-120/13
108-88-3	Toluene	ND		625	582	93	573	92	2	77-114/12
79-01-6	Trichloroethylene	3170 [b]		625	3530	58* [a]	3510	54* [a]	1	74-117/12
75-69-4	Trichlorofluoromethane	ND		625	640	102	629	101	2	64-132/18
75-01-4	Vinyl chloride	ND		625	598	96	631	101	5	64-121/19
1330-20-7	Xylene (total)	ND		1880	1700	91	1690	90	1	75-111/12
	m,p-Xylene	ND		1250	1150	92	1140	91	1	75-112/12
95-47-6	o-Xylene	ND		625	557	89	546	87	2	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T71823-1	T71823-1	Limits
1868-53-7	Dibromofluoromethane	109%	109%	113%	115%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	109%	111%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71823
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71823-1, T71823-2, T71823-3

CAS No.	Surrogate Recoveries	MS	MSD	T71823-1	T71823-1	Limits
2037-26-5	Toluene-D8	107%	105%	111%	112%	87-119%
460-00-4	4-Bromofluorobenzene	96%	97%	101%	101%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T71823
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9		
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7	-0.73	<3.0
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130		
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1	-0.070	<20

Associated samples MP14300: T71823-1, T71823-2, T71823-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T71823
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/25/11 03/25/11

Metal	T71823-1 Original	DUP	RPD	QC Limits	T71823-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	8.4	7.3	14.0	0-20	8.4	420	400	102.9	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	1160	1100	5.3	0-20	1160	1580	400	105.0	80-120

Associated samples MP14300: T71823-1, T71823-2, T71823-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T71823
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/25/11

Metal	T71823-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	8.4	401	400	98.2	4.6	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin	anr					
Titanium						
Vanadium	anr					
Zinc	1160	1540	400	95.0	2.6	20

Associated samples MP14300: T71823-1, T71823-2, T71823-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T71823
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	415	400	103.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	436	400	109.0	80-120

Associated samples MP14300: T71823-1, T71823-2, T71823-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T71823
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	T71823-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	8.41	14.6	73.7 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	1160	1210	4.2	0-10

Associated samples MP14300: T71823-1, T71823-2, T71823-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

04/13/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T71824

Sampling Date: 03/22/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@49004 09:49 13-Apr-2011

Sample Summary

United Technology Corporation

Job No: T71824

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T71824-1	03/22/11	00:00	JO	03/23/11	AQ	Ground Water	MW60
T71824-2	03/22/11	00:00	JO	03/23/11	AQ	Ground Water	MW62
T71824-3	03/22/11	00:00	JO	03/23/11	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T71824
Site:	XDD/UT Collierville/031091	**Report Date**	4/7/2011 3:33:40 PM

3 Sample(s) were collected on 03/22/2011 and were received at Accutest on 03/23/2011 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T71824. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4191

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T71823-1MS, T71823-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene, Trichloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP14300

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T71823-1DUP, T71823-1MS, T71823-1MSD, T71823-1SDL, T71823-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Chromium are outside control limits for sample MP14300-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP14300-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T71824-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032961.D	1	03/30/11	AK	n/a	n/a	VF4191
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T71824-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	111%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T71824-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T71824-1	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	6.9	3.0	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	50.4	20	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5619
(2) Prep QC Batch: MP14300

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T71824-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032962.D	1	03/31/11	AK	n/a	n/a	VF4191
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T71824-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	111%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T71824-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T71824-2	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	03/25/11	04/06/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5619
(2) Prep QC Batch: MP14300

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T71824-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F032963.D	1	03/31/11	AK	n/a	n/a	VF4191
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T71824-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-122%
17060-07-0	1,2-Dichloroethane-D4	112%		75-121%
2037-26-5	Toluene-D8	111%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T71824-3	**Date Sampled:**	03/22/11
Matrix:	AQ - Ground Water	**Date Received:**	03/23/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T71824

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MARK@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): J FRANK OCONNELL Jr Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)

Company Name: XDD-LCC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 FULL LIST	LEAD/ZINC/TOTAL CR	LAB USE ONLY
1	MW 60	3-22-11	1350	JFO	GW	4	3			1									X	X	
2	MW 62	3-22-11	1435	JFO	GW	4	3			1									X	X	
3	DUPLICATE	3-22-11	1355	JFO	GW	3	3												X		

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 6 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Leblink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com
Bill to XDD-LCC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	3-22-11 / 1700	1 FEDEX	2 FEDEX 3/23/110945	3-22-11 / 1700	2 ALGC [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact
Preserved where applicable ☐
On Ice ☑
Cooler Temp. 1.4°C

4.1 4

T71824: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T71824 Client: SAS Environmental XDD-LLC Date/Time Received: 3/23/11 0945

# of Coolers Received: 1 Thermometer #: #110 Temperature Adjustment Factor: −0.5°C

Cooler Temperatures (initial/adjusted): #1: 1.9/1.4°C #2: ____ #3: ____ #4: ____ #5: ____

#6: ____ #7: ____ #8: ____ #9: ____ #10 ____ #11 ____ #12 ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 3/23/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 3-23-11

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

l:\mwalker\form\samplemanagement SM023 Revised 8/11/10

SAMPLE RECEIPT LOG

JOB #: T71824 DATE/TIME RECEIVED: 3/23/11 0945

CLIENT: SAS Environmental XDD-LLC INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW60	3-22-11 1350	W	500ml	1	1 BB	1 2 (3) 4 5 6 7 8	(<2) >12
↓	1	↓	↓	↓	40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
↓	2	MW67	1435	↓	500ml	1	1 BB	1 2 (3) 4 5 6 7 8	(<2) >12
↓	2	↓	↓	↓	40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2 >12
↓	3	Duplicate	↓ 1355	↓	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
			DRA					1 2 3 4 5 6 7 8	<2 >12
			3/23/11					1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01.ewp

4.1

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T71824: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	75-121%

Method Blank Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-MB	F032955.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	112%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

Blank Spike Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	62-124
71-43-2	Benzene	25	25.7	103	76-118
108-86-1	Bromobenzene	25	24.1	96	72-110
74-97-5	Bromochloromethane	25	24.6	98	69-110
75-27-4	Bromodichloromethane	25	24.6	98	68-107
75-25-2	Bromoform	25	23.2	93	64-103
104-51-8	n-Butylbenzene	25	24.2	97	74-114
135-98-8	sec-Butylbenzene	25	21.4	86	76-118
98-06-6	tert-Butylbenzene	25	25.2	101	72-116
108-90-7	Chlorobenzene	25	24.9	100	74-111
75-00-3	Chloroethane	25	27.8	111	75-135
67-66-3	Chloroform	25	24.9	100	75-117
95-49-8	o-Chlorotoluene	25	23.3	93	74-113
106-43-4	p-Chlorotoluene	25	24.9	100	72-114
75-15-0	Carbon disulfide	25	26.7	107	57-126
56-23-5	Carbon tetrachloride	25	28.3	113	75-125
75-34-3	1,1-Dichloroethane	25	26.5	106	76-121
75-35-4	1,1-Dichloroethylene	25	29.1	116	71-128
563-58-6	1,1-Dichloropropene	25	27.5	110	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.5	86	55-121
106-93-4	1,2-Dibromoethane	25	24.2	97	69-106
107-06-2	1,2-Dichloroethane	25	24.2	97	70-111
78-87-5	1,2-Dichloropropane	25	24.8	99	71-113
142-28-9	1,3-Dichloropropane	25	23.7	95	69-106
594-20-7	2,2-Dichloropropane	25	25.5	102	68-130
124-48-1	Dibromochloromethane	25	23.7	95	69-104
75-71-8	Dichlorodifluoromethane	25	27.7	111	28-120
156-59-2	cis-1,2-Dichloroethylene	25	27.3	109	68-113
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	71-111
541-73-1	m-Dichlorobenzene	25	24.2	97	74-110
95-50-1	o-Dichlorobenzene	25	23.8	95	72-108
106-46-7	p-Dichlorobenzene	25	23.9	96	74-110
156-60-5	trans-1,2-Dichloroethylene	25	26.6	106	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	75-111
100-41-4	Ethylbenzene	25	24.1	96	75-112
591-78-6	2-Hexanone	125	114	91	60-113

Blank Spike Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	30.3	121	72-123
98-82-8	Isopropylbenzene	25	29.4	118	75-123
99-87-6	p-Isopropyltoluene	25	24.8	99	76-116
108-10-1	4-Methyl-2-pentanone	125	113	90	63-115
74-83-9	Methyl bromide	25	26.6	106	59-132
74-87-3	Methyl chloride	25	24.7	99	56-150
74-95-3	Methylene bromide	25	23.6	94	68-114
75-09-2	Methylene chloride	25	23.8	95	70-113
78-93-3	Methyl ethyl ketone	125	115	92	62-117
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	65-113
91-20-3	Naphthalene	25	22.2	89	53-127
103-65-1	n-Propylbenzene	25	24.2	97	74-115
100-42-5	Styrene	25	25.2	101* [a]	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	24.8	99	72-108
71-55-6	1,1,1-Trichloroethane	25	27.0	108	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.9	92	67-110
79-00-5	1,1,2-Trichloroethane	25	24.2	97	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	51-128
96-18-4	1,2,3-Trichloropropane	25	23.3	93	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.1	92	63-114
95-63-6	1,2,4-Trimethylbenzene	25	24.2	97	73-111
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	74-115
127-18-4	Tetrachloroethylene	25	27.1	108	77-120
108-88-3	Toluene	25	25.1	100	77-114
79-01-6	Trichloroethylene	25	25.8	103	74-117
75-69-4	Trichlorofluoromethane	25	26.8	107	64-132
75-01-4	Vinyl chloride	25	27.1	108	64-121
1330-20-7	Xylene (total)	75	73.3	98	75-111
	m,p-Xylene	50	49.7	99	75-112
95-47-6	o-Xylene	25	23.6	94	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	116%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%

Blank Spike Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4191-BS	F032953.D	1	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	114%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	T71823-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	34.4		3130	2930	93	3320	105	12	62-124/21
71-43-2	Benzene	ND		625	598	96	596	95	0	76-118/16
108-86-1	Bromobenzene	ND		625	547	88	553	88	1	72-110/12
74-97-5	Bromochloromethane	ND		625	562	90	576	92	2	69-110/12
75-27-4	Bromodichloromethane	ND		625	570	91	581	93	2	68-107/12
75-25-2	Bromoform	ND		625	537	86	563	90	5	64-103/14
104-51-8	n-Butylbenzene	ND		625	560	90	567	91	1	74-114/12
135-98-8	sec-Butylbenzene	ND		625	492	79	487	78	1	76-118/12
98-06-6	tert-Butylbenzene	ND		625	588	94	595	95	1	72-116/14
108-90-7	Chlorobenzene	ND		625	576	92	575	92	0	74-111/11
75-00-3	Chloroethane	ND		625	618	99	622	100	1	75-135/15
67-66-3	Chloroform	ND		625	587	94	581	93	1	75-117/12
95-49-8	o-Chlorotoluene	ND		625	536	86	538	86	0	74-113/12
106-43-4	p-Chlorotoluene	ND		625	563	90	568	91	1	72-114/12
75-15-0	Carbon disulfide	ND		625	610	98	616	99	1	57-126/13
56-23-5	Carbon tetrachloride	ND		625	671	107	670	107	0	75-125/12
75-34-3	1,1-Dichloroethane	ND		625	612	98	615	98	0	76-121/13
75-35-4	1,1-Dichloroethylene	3.5		625	675	107	680	108	1	71-128/19
563-58-6	1,1-Dichloropropene	ND		625	641	103	654	105	2	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		625	480	77	574	92	18	55-121/33
106-93-4	1,2-Dibromoethane	ND		625	542	87	585	94	8	69-106/13
107-06-2	1,2-Dichloroethane	ND		625	579	93	587	94	1	70-111/14
78-87-5	1,2-Dichloropropane	ND		625	586	94	576	92	2	71-113/12
142-28-9	1,3-Dichloropropane	ND		625	543	87	572	92	5	69-106/12
594-20-7	2,2-Dichloropropane	ND		625	609	97	541	87	12	68-130/14
124-48-1	Dibromochloromethane	ND		625	552	88	570	91	3	69-104/12
75-71-8	Dichlorodifluoromethane	ND		625	664	106	679	109	2	28-120/21
156-59-2	cis-1,2-Dichloroethylene	2790 [b]		625	3180	62* [a]	3200	66* [a]	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		625	564	90	574	92	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		625	555	89	559	89	1	74-110/12
95-50-1	o-Dichlorobenzene	ND		625	551	88	564	90	2	72-108/12
106-46-7	p-Dichlorobenzene	ND		625	548	88	559	89	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	17.7		625	628	98	634	99	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		625	598	96	598	96	0	75-111/12
100-41-4	Ethylbenzene	ND		625	568	91	563	90	1	75-112/12
591-78-6	2-Hexanone	ND		3130	2480	79	2900	93	16	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Compound	T71823-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		625	582	93	636	102	9	72-123/17
98-82-8	Isopropylbenzene	ND		625	659	105	673	108	2	75-123/12
99-87-6	p-Isopropyltoluene	ND		625	568	91	562	90	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		3130	2510	80	2980	95	17	63-115/21
74-83-9	Methyl bromide	ND		625	594	95	608	97	2	59-132/15
74-87-3	Methyl chloride	ND		625	564	90	591	95	5	56-150/17
74-95-3	Methylene bromide	ND		625	559	89	591	95	6	68-114/13
75-09-2	Methylene chloride	ND		625	551	88	562	90	2	70-113/13
78-93-3	Methyl ethyl ketone	ND		3130	2560	82	3050	98	17	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		625	520	83	567	91	9	65-113/13
91-20-3	Naphthalene	ND		625	486	78	570	91	16	53-127/34
103-65-1	n-Propylbenzene	ND		625	536	86	550	88	3	74-115/12
100-42-5	Styrene	ND		625	584	93	577	92	1	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		625	582	93	570	91	2	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		625	645	103	640	102	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	503	80	570	91	12	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		625	554	89	584	93	5	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		625	487	78	551	88	12	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		625	502	80	554	89	10	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		625	509	81	546	87	7	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		625	551	88	552	88	0	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		625	556	89	558	89	0	74-115/12
127-18-4	Tetrachloroethylene	ND		625	619	99	618	99	0	77-120/13
108-88-3	Toluene	ND		625	582	93	573	92	2	77-114/12
79-01-6	Trichloroethylene	3170 [b]		625	3530	58* [a]	3510	54* [a]	1	74-117/12
75-69-4	Trichlorofluoromethane	ND		625	640	102	629	101	2	64-132/18
75-01-4	Vinyl chloride	ND		625	598	96	631	101	5	64-121/19
1330-20-7	Xylene (total)	ND		1880	1700	91	1690	90	1	75-111/12
	m,p-Xylene	ND		1250	1150	92	1140	91	1	75-112/12
95-47-6	o-Xylene	ND		625	557	89	546	87	2	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T71823-1	T71823-1	Limits
1868-53-7	Dibromofluoromethane	109%	109%	113%	115%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	109%	111%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T71824
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T71823-1MS	F032957.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1MSD	F032958.D	25	03/30/11	AK	n/a	n/a	VF4191
T71823-1	F032965.D	5	03/31/11	AK	n/a	n/a	VF4191
T71823-1	F032956.D	25	03/30/11	AK	n/a	n/a	VF4191

The QC reported here applies to the following samples: **Method:** SW846 8260B

T71824-1, T71824-2, T71824-3

CAS No.	Surrogate Recoveries	MS	MSD	T71823-1	T71823-1	Limits
2037-26-5	Toluene-D8	107%	105%	111%	112%	87-119%
460-00-4	4-Bromofluorobenzene	96%	97%	101%	101%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T71824
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9	-0.050	<10
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7	-0.73	<3.0
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130		
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1	-0.070	<20

Associated samples MP14300: T71824-1, T71824-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T71824
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11 03/25/11

Metal	T71823-1 Original	DUP	RPD	QC Limits	T71823-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	1.1	0.0	200.0(a)	0-20	1.1	412	400	102.7	80-120
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	8.4	7.3	14.0	0-20	8.4	420	400	102.9	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	1160	1100	5.3	0-20	1160	1580	400	105.0	80-120

Associated samples MP14300: T71824-1, T71824-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T71824
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/25/11

Metal	T71823-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	1.1	396	400	98.7	4.0	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	8.4	401	400	98.2	4.6	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin	anr					
Titanium						
Vanadium	anr					
Zinc	1160	1540	400	95.0	2.6	20

Associated samples MP14300: T71824-1, T71824-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T71824
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	406	400	101.5	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	415	400	103.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	436	400	109.0	80-120

Associated samples MP14300: T71824-1, T71824-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T71824
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP14300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/25/11

Metal	T71823-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	8.41	14.6	73.7 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	1160	1210	4.2	0-10

Associated samples MP14300: T71824-1, T71824-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

05/05/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T73080

Sampling Date: 04/07/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **24**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

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Test results relate only to samples analyzed.

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Accutest LabLink@49410 13:29 05-May-2011

Sample Summary

United Technology Corporation

Job No: T73080

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T73080-1	04/07/11	12:00		04/08/11	AQ	Effluent	WP2 EFF
T73080-2	04/07/11	12:05		04/08/11	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T73080
Site:	XDD/UT Collierville/031091	**Report Date**	4/27/2011 10:12:37 AM

2 Sample(s), were collected on 04/07/2011 and were received at Accutest on 04/08/2011 properly preserved, at 5.3 Deg. C and intact. These Samples received an Accutest job number of T73080. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4216

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T73080-2MS, T73080-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- Matrix Spike Recovery(s) for Bromoform, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Styrene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T73080-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Effluent	**Date Received:**	04/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F033456.D	1	04/15/11	AK	n/a	n/a	VF4216
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T73080-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Effluent	**Date Received:**	04/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	105%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T73080-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Influent	**Date Received:**	04/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F033457.D	1	04/15/11	AK	n/a	n/a	VF4216
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	34.8	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T73080-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Influent	**Date Received:**	04/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	109%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- LRC Form

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T73080

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Address: 1270 SOKEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546
Sampler's Name: J FRANK OLDNEWERKE

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA ROAD
City: COLLIERVILLE State: TN
Project #: 031091
Fax #: 330 666 7443
Client Purchase Order #: Bill to KDD-LLC

Requested Analysis: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	EnCore	VOC 8260	LAB USE ONLY
1	WPZ EFF		4-7-11	1200	JFO	GW	3	3								X	
2	WPZ INF		4-7-11	1205	JFO	GW	3	3								X	

Turnaround Time (Business Days)

- ☒ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS TO JFOI21@AOL.COM
Bill to KDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1	4-7-11/1310	1	2	4/8/11 0930	4/8/11 0930
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ✓ Cooler Temp. 5.3°C

T73080: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T73080 Client: SAS Environmental Date/Time Received: 4/8/11 0930

# of Coolers Received: 1 Thermometer #: #110 Temperature Adjustment Factor: -0.5°C

Cooler Temperatures (initial/adjusted): #1: 5.8/5.3°C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 4/8/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature]

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\forms\samplemanagement SM023 Revised 8/11/10

T73080: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T73080 DATE/TIME RECEIVED: 4/8/11 0930

CLIENT: SAS Environmental INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	WPZ EFF	4-7-11 1200	W	40ml	1-3	VR	1 2 3 4 5 6 7 8	<2	>12
1	2	WPZ INF	4-7-11 1205	W	40ml	1-3	VR	1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T73080: Chain of Custody

Page 3 of 3

Appendix A Laboratory Data Package Cover Page

This data package is for Job No.T73080 and laboratory batch no(s): VF4216 and consists of:

- ☐ This signature page, the laboratory review checklist, and the following reportable data:
- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for each "No"or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Report. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC&25.6 and was last inspection by [X] TCEQ or [ ] _____ on April, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Paul K. Canevaro	Paul K Canevaro	Laboratory Director	4/27/2011
Name (Printed)	Signature	Official Title (printed)	Date

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date:4/27/2011
Project Name: XDD/UT COLLIERVILLE/031091	Laboratory Job Number: T73080
Reviewer Name: Paul K. Canevaro	Prep Batch Number(s): VF4216

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				
		Is the Laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast | LRC Date: 4/27/2011

Project Name: XDD/UT COLLIERVILLE/031091 | Laboratory Job Number: T73080

Reviewer Name: Paul K. Canevaro | Prep Batch Number(s): VF4216

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 4/27/2011
Project Name :XDD/UT COLLIERVILLE/031091	Laboratory Job Number: T73080
Reviewer Name: Paul K. Canevaro	Prep Batch Number: VF4216

DESCRIPTION	
1	For reporting purposes, the MQL is defined in the report as the RL. The unadjusted MQL/RL is reported in the method blank. The SQL/MDL is defined in the report as the MDL.
2	All anomalies are discussed in the case narrative

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O= organic analyses; I= inorganic analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4216-MB	F033455.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4216-MB	F033455.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%
2037-26-5	Toluene-D8	111%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Blank Spike Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4216-BS	F033453.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	109	87	62-124
71-43-2	Benzene	25	27.1	108	76-118
75-27-4	Bromodichloromethane	25	25.2	101	68-107
75-25-2	Bromoform	25	23.3	93	64-103
108-90-7	Chlorobenzene	25	26.7	107	74-111
75-00-3	Chloroethane	25	27.4	110	75-135
67-66-3	Chloroform	25	25.6	102	75-117
75-15-0	Carbon disulfide	25	28.8	115	57-126
56-23-5	Carbon tetrachloride	25	27.9	112	75-125
75-34-3	1,1-Dichloroethane	25	27.0	108	76-121
75-35-4	1,1-Dichloroethylene	25	30.4	122	71-128
107-06-2	1,2-Dichloroethane	25	24.6	98	70-111
78-87-5	1,2-Dichloropropane	25	26.4	106	71-113
124-48-1	Dibromochloromethane	25	24.3	97	69-104
156-59-2	cis-1,2-Dichloroethylene	25	26.4	106	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.8	103	71-111
156-60-5	trans-1,2-Dichloroethylene	25	27.7	111	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.6	106	75-111
100-41-4	Ethylbenzene	25	26.2	105	75-112
591-78-6	2-Hexanone	125	107	86	60-113
108-10-1	4-Methyl-2-pentanone	125	107	86	63-115
74-83-9	Methyl bromide	25	25.1	100	59-132
74-87-3	Methyl chloride	25	25.9	104	56-150
75-09-2	Methylene chloride	25	26.9	108	70-113
78-93-3	Methyl ethyl ketone	125	108	86	62-117
100-42-5	Styrene	25	26.7	107* [a]	66-100
71-55-6	1,1,1-Trichloroethane	25	28.0	112	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.9	92	67-110
79-00-5	1,1,2-Trichloroethane	25	24.0	96	69-107
127-18-4	Tetrachloroethylene	25	27.3	109	77-120
108-88-3	Toluene	25	26.6	106	77-114
79-01-6	Trichloroethylene	25	26.4	106	74-117
75-01-4	Vinyl chloride	25	27.7	111	64-121
1330-20-7	Xylene (total)	75	80.0	107	75-111

Blank Spike Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4216-BS	F033453.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	75-121%
2037-26-5	Toluene-D8	108%	87-119%
460-00-4	4-Bromofluorobenzene	107%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73080-2MS	F033458.D	1	04/15/11	AK	n/a	n/a	VF4216
T73080-2MSD	F033459.D	1	04/15/11	AK	n/a	n/a	VF4216
T73080-2	F033457.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Compound	T73080-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	141	113	132	106	7	62-124/21
71-43-2	Benzene	ND		25	26.6	106	26.7	107	0	76-118/16
75-27-4	Bromodichloromethane	ND		25	26.6	106	25.7	103	3	68-107/12
75-25-2	Bromoform	ND		25	26.4	106*	25.3	101	4	64-103/14
108-90-7	Chlorobenzene	ND		25	26.0	104	25.8	103	1	74-111/11
75-00-3	Chloroethane	ND		25	25.7	103	28.7	115	11	75-135/15
67-66-3	Chloroform	ND		25	26.8	107	26.0	104	3	75-117/12
75-15-0	Carbon disulfide	ND		25	27.8	111	27.8	111	0	57-126/13
56-23-5	Carbon tetrachloride	ND		25	29.9	120	29.2	117	2	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	26.8	107	26.6	106	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	30.8	123	30.7	123	0	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	27.4	110	25.7	103	6	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	26.0	104	26.1	104	0	71-113/12
124-48-1	Dibromochloromethane	ND		25	25.8	103	25.1	100	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.3	105	26.6	106	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.5	106	26.4	106	0	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.8	111	28.0	112	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.9	112*	26.7	107	4	75-111/12
100-41-4	Ethylbenzene	ND		25	25.6	102	25.3	101	1	75-112/12
591-78-6	2-Hexanone	ND		125	125	100	111	89	12	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	130	104	120	96	8	63-115/21
74-83-9	Methyl bromide	ND		25	24.4	98	26.1	104	7	59-132/15
74-87-3	Methyl chloride	ND		25	25.3	101	27.8	111	9	56-150/17
75-09-2	Methylene chloride	ND		25	25.3	101	25.4	102	0	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	137	110	122	98	12	62-117/21
100-42-5	Styrene	ND		25	26.2	105*	26.2	105*	0	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	29.5	118	28.7	115	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.9	92	25.1	100	9	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	26.0	104	24.7	99	5	69-107/14
127-18-4	Tetrachloroethylene	ND		25	27.9	112	26.6	106	5	77-120/13
108-88-3	Toluene	ND		25	25.8	103	25.1	100	3	77-114/12
79-01-6	Trichloroethylene	34.8		25	62.7	112	62.0	109	1	74-117/12
75-01-4	Vinyl chloride	ND		25	25.7	103	28.1	112	9	64-121/19
1330-20-7	Xylene (total)	ND		75	79.1	105	77.0	103	3	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T73080
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73080-2MS	F033458.D	1	04/15/11	AK	n/a	n/a	VF4216
T73080-2MSD	F033459.D	1	04/15/11	AK	n/a	n/a	VF4216
T73080-2	F033457.D	1	04/15/11	AK	n/a	n/a	VF4216

The QC reported here applies to the following samples: **Method:** SW846 8260B

T73080-1, T73080-2

CAS No.	Surrogate Recoveries	MS	MSD	T73080-2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	98%	99%	75-121%
2037-26-5	Toluene-D8	104%	101%	109%	87-119%
460-00-4	4-Bromofluorobenzene	96%	104%	107%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T74001

Sampling Date: 04/19/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55441 14:27 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T74001

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T74001-1	04/19/11	11:50		04/20/11	AQ	Ground Water	MW60
T74001-2	04/19/11	12:30		04/20/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T74001
Site:	XDD/UT Collierville/031091	**Report Date**	5/4/2011 4:08:24 PM

2 Sample(s) were collected on 04/19/2011 and were received at Accutest on 04/20/2011 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of T74001. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE334

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T73854-1MS, T73854-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Bromoform, Carbon tetrachloride, Trichlorofluoromethane are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromoform, Carbon tetrachloride, trans-1,3-Dichloropropene, Trichlorofluoromethane are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T74001-1	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0006302.D	1	04/29/11	JL	n/a	n/a	VE334
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T74001-1	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	86%		75-121%
2037-26-5	Toluene-D8	103%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T74001-1	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T74001-2	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0006303.D	1	04/29/11	JL	n/a	n/a	VE334
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T74001-2	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	87%		75-121%
2037-26-5	Toluene-D8	103%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T74001-2	**Date Sampled:**	04/19/11
Matrix:	AQ - Ground Water	**Date Received:**	04/20/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T74001

Client / Reporting Information

Company Name: SAS Environmental Inc
Street Address: 1270 S. Cleve-Mass Rd
City / State / Zip: Akron OH 44321
Project Contact: Mark V. Allen / E-mail: mallen@sasenvironmental.com
Phone #: 330 666 1540 / Fax #: 330 666 7443
Sampler(s) Name(s): Frank O'Connell / Phone #: 330 666 1546

Project Information

Project Name: UT Collinsville
Street: 973 S. Bynum Rd
City / State: Collinsville TN
Project #: 031091
Client Purchase Order #: .
Project Manager: Mark Kallen

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 Main Way Unit 3
City / State / Zip: Stratham NH 03885
Attention: Bruce Cliff

Requested Analyses: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW60	4-19-11	1150	SFO	GW	3	3												X	
2	MW62	4-19-11	1230	SFO	GW	3	3												X	

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Log in under UTC
Standard TAT
Email results to jaiei@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery. 4/20/11 1000

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	04-19-11 / 1320	1 FedEx	2 FedEx	04-19-11 / 1320	2 ALGC [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice: ✓ Cooler Temp: 3.0°C

T74001: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T74001 Client: SAS Environmental Date/Time Received: 4/20/11 1000

# of Coolers Received: 1 Thermometer #: #110 Temperature Adjustment Factor: -0.5°C

Cooler Temperatures (initial/adjusted): #1: 3.5/3.0°C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 4/20/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 4/20/11

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T74001: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T74001 DATE/TIME RECEIVED: 4/20/11 1000

CLIENT: SAS Environmental INITIALS: DRA

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW60	4-19-11 1150	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	MW62	4-19-11 1230	W	40ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
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								1 2 3 4 5 6 7 8	<2	>12
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								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

DRA 4/20/11

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

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T74001: Chain of Custody

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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%

Method Blank Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Blank Spike Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	97.7	78	62-124
71-43-2	Benzene	25	22.2	89	76-118
108-86-1	Bromobenzene	25	22.8	91	72-110
74-97-5	Bromochloromethane	25	22.7	91	69-110
75-27-4	Bromodichloromethane	25	20.7	83	68-107
75-25-2	Bromoform	25	21.2	85	64-103
104-51-8	n-Butylbenzene	25	21.6	86	74-114
135-98-8	sec-Butylbenzene	25	23.1	92	76-118
98-06-6	tert-Butylbenzene	25	21.1	84	72-116
108-90-7	Chlorobenzene	25	22.3	89	74-111
75-00-3	Chloroethane	25	25.4	102	75-135
67-66-3	Chloroform	25	21.4	86	75-117
95-49-8	o-Chlorotoluene	25	21.2	85	74-113
106-43-4	p-Chlorotoluene	25	21.3	85	72-114
75-15-0	Carbon disulfide	25	22.6	90	57-126
56-23-5	Carbon tetrachloride	25	19.2	77	75-125
75-34-3	1,1-Dichloroethane	25	21.8	87	76-121
75-35-4	1,1-Dichloroethylene	25	21.5	86	71-128
563-58-6	1,1-Dichloropropene	25	22.4	90	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	18.7	75	55-121
106-93-4	1,2-Dibromoethane	25	21.7	87	69-106
107-06-2	1,2-Dichloroethane	25	19.1	76	70-111
78-87-5	1,2-Dichloropropane	25	21.9	88	71-113
142-28-9	1,3-Dichloropropane	25	21.4	86	69-106
594-20-7	2,2-Dichloropropane	25	20.7	83	68-130
124-48-1	Dibromochloromethane	25	21.6	86	69-104
75-71-8	Dichlorodifluoromethane	25	20.2	81	28-120
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.2	89	71-111
541-73-1	m-Dichlorobenzene	25	23.9	96	74-110
95-50-1	o-Dichlorobenzene	25	22.7	91	72-108
106-46-7	p-Dichlorobenzene	25	23.0	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	21.1	84	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.1	88	75-111
100-41-4	Ethylbenzene	25	21.8	87	75-112
591-78-6	2-Hexanone	125	94.5	76	60-113

Blank Spike Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	23.4	94	72-123
98-82-8	Isopropylbenzene	25	25.8	103	75-123
99-87-6	p-Isopropyltoluene	25	22.9	92	76-116
108-10-1	4-Methyl-2-pentanone	125	101	81	63-115
74-83-9	Methyl bromide	25	23.0	92	59-132
74-87-3	Methyl chloride	25	23.5	94	56-150
74-95-3	Methylene bromide	25	21.7	87	68-114
75-09-2	Methylene chloride	25	21.8	87	70-113
78-93-3	Methyl ethyl ketone	125	104	83	62-117
1634-04-4	Methyl Tert Butyl Ether	25	19.8	79	65-113
91-20-3	Naphthalene	25	23.4	94	53-127
103-65-1	n-Propylbenzene	25	21.8	87	74-115
100-42-5	Styrene	25	22.8	91	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	21.4	86	72-108
71-55-6	1,1,1-Trichloroethane	25	21.2	85	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	20.8	83	67-110
79-00-5	1,1,2-Trichloroethane	25	21.9	88	69-107
87-61-6	1,2,3-Trichlorobenzene	25	24.5	98	51-128
96-18-4	1,2,3-Trichloropropane	25	20.6	82	55-116
120-82-1	1,2,4-Trichlorobenzene	25	24.0	96	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.1	88	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.6	86	74-115
127-18-4	Tetrachloroethylene	25	25.0	100	77-120
108-88-3	Toluene	25	22.6	90	77-114
79-01-6	Trichloroethylene	25	23.0	92	74-117
75-69-4	Trichlorofluoromethane	25	19.7	79	64-132
75-01-4	Vinyl chloride	25	23.0	92	64-121
1330-20-7	Xylene (total)	75	66.2	88	75-111
	m,p-Xylene	50	44.6	89	75-112
95-47-6	o-Xylene	25	21.6	86	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%

Blank Spike Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	T73854-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2010	J	6250	6430	71	6890	78	7	62-124/21
71-43-2	Benzene	409		1250	1490	86	1430	82	4	76-118/16
108-86-1	Bromobenzene	ND		1250	1090	87	1090	87	0	72-110/12
74-97-5	Bromochloromethane	ND		1250	1070	86	1080	86	1	69-110/12
75-27-4	Bromodichloromethane	ND		1250	935	75	901	72	4	68-107/12
75-25-2	Bromoform	ND		1250	752	60*	745	60*	1	64-103/14
104-51-8	n-Butylbenzene	ND		1250	1090	87	1100	88	1	74-114/12
135-98-8	sec-Butylbenzene	ND		1250	1100	88	1100	88	0	76-118/12
98-06-6	tert-Butylbenzene	ND		1250	1000	80	982	79	2	72-116/14
108-90-7	Chlorobenzene	ND		1250	1080	86	1040	83	4	74-111/11
75-00-3	Chloroethane	ND		1250	1040	83	998	80	4	75-135/15
67-66-3	Chloroform	ND		1250	1040	83	1000	80	4	75-117/12
95-49-8	o-Chlorotoluene	ND		1250	1110	89	1090	87	2	74-113/12
106-43-4	p-Chlorotoluene	ND		1250	1100	88	1100	88	0	72-114/12
75-15-0	Carbon disulfide	ND		1250	1120	90	980	78	13	57-126/13
56-23-5	Carbon tetrachloride	ND		1250	829	66*	777	62*	6	75-125/12
75-34-3	1,1-Dichloroethane	ND		1250	1050	84	1030	82	2	76-121/13
75-35-4	1,1-Dichloroethylene	ND		1250	1030	82	963	77	7	71-128/19
563-58-6	1,1-Dichloropropene	ND		1250	1080	86	1030	82	5	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	821	66	960	77	16	55-121/33
106-93-4	1,2-Dibromoethane	ND		1250	1040	83	1050	84	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		1250	919	74	919	74	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		1250	1060	85	1060	85	0	71-113/12
142-28-9	1,3-Dichloropropane	ND		1250	1030	82	1010	81	2	69-106/12
594-20-7	2,2-Dichloropropane	ND		1250	1000	80	971	78	3	68-130/14
124-48-1	Dibromochloromethane	ND		1250	881	70	862	69	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		1250	762	61	718	57	6	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1130	90	1110	89	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1030	82	920	74	11	71-111/12
541-73-1	m-Dichlorobenzene	ND		1250	1130	90	1090	87	4	74-110/12
95-50-1	o-Dichlorobenzene	ND		1250	1070	86	1060	85	1	72-108/12
106-46-7	p-Dichlorobenzene	ND		1250	1080	86	1080	86	0	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1000	80	954	76	5	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1010	81	921	74*	9	75-111/12
100-41-4	Ethylbenzene	144		1250	1200	84	1160	81	3	75-112/12
591-78-6	2-Hexanone	ND		6250	4490	72	4840	77	8	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Compound	T73854-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		1250	1090	87	1130	90	4	72-123/17
98-82-8	Isopropylbenzene	36.9	J	1250	1270	99	1230	95	3	75-123/12
99-87-6	p-Isopropyltoluene	44.1	J	1250	1110	85	1120	86	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		6250	4860	78	5300	85	9	63-115/21
74-83-9	Methyl bromide	ND		1250	790	63	799	64	1	59-132/15
74-87-3	Methyl chloride	ND		1250	879	70	850	68	3	56-150/17
74-95-3	Methylene bromide	ND		1250	1030	82	1060	85	3	68-114/13
75-09-2	Methylene chloride	62.3	J	1250	1080	81	1050	79	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		6250	5020	80	5640	90	12	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		1250	951	76	952	76	0	65-113/13
91-20-3	Naphthalene	398		1250	1500	88	1660	101	10	53-127/34
103-65-1	n-Propylbenzene	56.3	J	1250	1090	83	1070	81	2	74-115/12
100-42-5	Styrene	ND		1250	902	72	917	73	2	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1020	82	981	78	4	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		1250	1010	81	965	77	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1020	82	1080	86	6	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		1250	1050	84	1080	86	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1120	90	1230	98	9	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		1250	1030	82	1060	85	3	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1090	87	1160	93	6	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1110		1250	2170	85	2190	86	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	842		1250	1880	83	1910	85	2	74-115/12
127-18-4	Tetrachloroethylene	ND		1250	1210	97	1230	98	2	77-120/13
108-88-3	Toluene	1510		1250	2640	90	2520	81	5	77-114/12
79-01-6	Trichloroethylene	ND		1250	1110	89	1080	86	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		1250	582	47*	590	47*	1	64-132/18
75-01-4	Vinyl chloride	ND		1250	951	76	898	72	6	64-121/19
1330-20-7	Xylene (total)	2940		3750	6210	87	6040	83	3	75-111/12
	m,p-Xylene	2500		2500	4730	89	4600	84	3	75-112/12
95-47-6	o-Xylene	435		1250	1480	84	1440	80	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T73854-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	90%	88%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74001
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74001-1, T74001-2

CAS No.	Surrogate Recoveries	MS	MSD	T73854-1	Limits
2037-26-5	Toluene-D8	105%	105%	104%	87-119%
460-00-4	4-Bromofluorobenzene	99%	100%	98%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T77374

Sampling Date: 05/31/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55441 14:28 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T77374

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T77374-1	05/31/11	14:15		06/01/11	AQ	Ground Water	MW60
T77374-2	05/31/11	14:55		06/01/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T77374
Site:	XDD/UT Collierville/031091	**Report Date**	6/11/2011 2:21:15 PM

2 Samples were collected on 05/31/2011 and received at Accutest on 06/01/2011 properly preserved, at 5 Deg. C and intact. These Samples received an Accutest job number of T77374. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4288

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T77398-8MS, T77398-8MSD were used as the QC samples indicated.
- Blank Spike Recovery for Isopropylbenzene is outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T77374-1	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F035046.D	1	06/07/11	AK	n/a	n/a	VF4288
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T77374-1	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	104%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T77374-1	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	116%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T77374-2	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F035047.D	1	06/07/11	AK	n/a	n/a	VF4288
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T77374-2	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	108%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T77374-2	**Date Sampled:**	05/31/11
Matrix:	AQ - Ground Water	**Date Received:**	06/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	122%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T77374

Client / Reporting Information

Company Name	SAS ENVIRONMENTAL INC
Address	1270 S. Cleve-Mass Rd
City / State / Zip	Akron OH 44321
Project Contact / E-mail	Mark V. Allen m.allen@sasenvironmental.com
Phone #	330 666 1546
Sampler's Name	J Frank O'Connell

Project Information

Project Name	UT Collierville
Street	97 S. Byhalia Rd
City / State	Collierville TN
Project #	031091
Fax #	330 666 7443
Client Purchase Order #	

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260	LAB USE ONLY
1	MW 60		05-31-11	1415	JFO	GW	3	3								X	
2	MW 62		05-31-11	1455	JFO	GW	3	3								X	
	Temp Blank		05-31-11	LAB													

JFO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

Log in under UTC
Standard TAT
Email results to JFO121@aol.com
Bill to XDP-LLC ATTN Bruce Cliff

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 [signature]	5-31-11/1545	1 FEDEX	2 FEDEX	5-31-11/1545	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

4.1

4

T77374: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T77374 **Client:** SAS ENVIRONMENTAL INC. **Project:** UT COLLIERWINE

Date / Time Received: 6/1/2011 **Delivery Method:** **Airbill #'s:** 8731-7021-0643

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** -0.5;

Cooler Temps (Initial/Adjusted): #1: (5.5/5);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Belinda 6/1/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www.accutest.com

T77374: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T77374 **Date / Time Received:** 6/1/2011 9:05:00 AM **Initials:** BG

Client: SAS ENVIRONMENTAL INC.

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T77374-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5
1	T77374-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5
1	T77374-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5
1	T77374-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5
1	T77374-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5
1	T77374-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	5.5	-0.5	5

T77374: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-MB	F035040.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-MB	F035040.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%

Method Blank Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-MB	F035040.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	117%	80-133%

Blank Spike Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-BS	F035038.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	115	92	62-124
71-43-2	Benzene	25	26.2	105	76-118
108-86-1	Bromobenzene	25	25.9	104	72-110
74-97-5	Bromochloromethane	25	24.2	97	69-110
75-27-4	Bromodichloromethane	25	26.3	105	68-107
75-25-2	Bromoform	25	19.7	79	64-103
104-51-8	n-Butylbenzene	25	25.8	103	74-114
135-98-8	sec-Butylbenzene	25	23.7	95	76-118
98-06-6	tert-Butylbenzene	25	27.3	109	72-116
108-90-7	Chlorobenzene	25	24.4	98	74-111
75-00-3	Chloroethane	25	29.0	116	75-135
67-66-3	Chloroform	25	26.8	107	75-117
95-49-8	o-Chlorotoluene	25	26.5	106	74-113
106-43-4	p-Chlorotoluene	25	26.9	108	72-114
75-15-0	Carbon disulfide	25	28.0	112	57-126
56-23-5	Carbon tetrachloride	25	29.4	118	75-125
75-34-3	1,1-Dichloroethane	25	28.2	113	76-121
75-35-4	1,1-Dichloroethylene	25	29.3	117	71-128
563-58-6	1,1-Dichloropropene	25	29.0	116	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.6	82	55-121
106-93-4	1,2-Dibromoethane	25	20.6	82	69-106
107-06-2	1,2-Dichloroethane	25	25.1	100	70-111
78-87-5	1,2-Dichloropropane	25	27.2	109	71-113
142-28-9	1,3-Dichloropropane	25	21.7	87	69-106
594-20-7	2,2-Dichloropropane	25	26.5	106	68-130
124-48-1	Dibromochloromethane	25	22.5	90	69-104
75-71-8	Dichlorodifluoromethane	25	29.4	118	28-120
156-59-2	cis-1,2-Dichloroethylene	25	26.3	105	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.8	103	71-111
541-73-1	m-Dichlorobenzene	25	26.3	105	74-110
95-50-1	o-Dichlorobenzene	25	25.6	102	72-108
106-46-7	p-Dichlorobenzene	25	26.0	104	74-110
156-60-5	trans-1,2-Dichloroethylene	25	28.1	112	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.0	96	75-111
100-41-4	Ethylbenzene	25	23.9	96	75-112
591-78-6	2-Hexanone	125	104	83	60-113

Blank Spike Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-BS	F035038.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.1	104	72-123
98-82-8	Isopropylbenzene	25	31.8	127* [a]	75-123
99-87-6	p-Isopropyltoluene	25	26.6	106	76-116
108-10-1	4-Methyl-2-pentanone	125	113	90	63-115
74-83-9	Methyl bromide	25	29.2	117	59-132
74-87-3	Methyl chloride	25	27.3	109	56-150
74-95-3	Methylene bromide	25	24.1	96	68-114
75-09-2	Methylene chloride	25	26.2	105	70-113
78-93-3	Methyl ethyl ketone	125	101	81	62-117
1634-04-4	Methyl Tert Butyl Ether	25	19.0	76	65-113
91-20-3	Naphthalene	25	19.9	80	53-127
103-65-1	n-Propylbenzene	25	27.2	109	74-115
100-42-5	Styrene	25	23.9	96	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	23.8	95	72-108
71-55-6	1,1,1-Trichloroethane	25	29.2	117	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.8	87	67-110
79-00-5	1,1,2-Trichloroethane	25	21.7	87	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.8	91	51-128
96-18-4	1,2,3-Trichloropropane	25	23.0	92	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.7	95	63-114
95-63-6	1,2,4-Trimethylbenzene	25	25.5	102	73-111
108-67-8	1,3,5-Trimethylbenzene	25	25.5	102	74-115
127-18-4	Tetrachloroethylene	25	24.2	97	77-120
108-88-3	Toluene	25	24.1	96	77-114
79-01-6	Trichloroethylene	25	26.8	107	74-117
75-69-4	Trichlorofluoromethane	25	30.4	122	64-132
75-01-4	Vinyl chloride	25	26.8	107	64-121
1330-20-7	Xylene (total)	75	72.7	97	75-111
	m,p-Xylene	50	48.5	97	75-112
95-47-6	o-Xylene	25	24.1	96	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%

Blank Spike Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4288-BS	F035038.D	1	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	115%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77398-8MS	F035042.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8MSD	F035043.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8	F035041.D	5	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	T77398-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	250 U		625	588	94	589	94	0	62-124/21
71-43-2	Benzene	10 U		125	132	106	130	104	2	76-118/16
108-86-1	Bromobenzene	10 U		125	125	100	127	102	2	72-110/12
74-97-5	Bromochloromethane	10 U		125	121	97	119	95	2	69-110/12
75-27-4	Bromodichloromethane	10 U		125	133	106	130	104	2	68-107/12
75-25-2	Bromoform	10 U		125	100	80	99.3	79	1	64-103/14
104-51-8	n-Butylbenzene	10 U		125	124	99	129	103	4	74-114/12
135-98-8	sec-Butylbenzene	10 U		125	113	90	113	90	0	76-118/12
98-06-6	tert-Butylbenzene	10 U		125	130	104	131	105	1	72-116/14
108-90-7	Chlorobenzene	281		125	384	82	380	79	1	74-111/11
75-00-3	Chloroethane	10 U		125	145	116	149	119	3	75-135/15
67-66-3	Chloroform	10 U		125	134	107	134	107	0	75-117/12
95-49-8	o-Chlorotoluene	10 U		125	128	102	128	102	0	74-113/12
106-43-4	p-Chlorotoluene	10 U		125	132	106	133	106	1	72-114/12
75-15-0	Carbon disulfide	10 U		125	141	113	141	113	0	57-126/13
56-23-5	Carbon tetrachloride	10 U		125	150	120	148	118	1	75-125/12
75-34-3	1,1-Dichloroethane	10 U		125	140	112	139	111	1	76-121/13
75-35-4	1,1-Dichloroethylene	10 U		125	149	119	148	118	1	71-128/19
563-58-6	1,1-Dichloropropene	10 U		125	144	115	145	116	1	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	10 U		125	99.0	79	97.4	78	2	55-121/33
106-93-4	1,2-Dibromoethane	10 U		125	104	83	102	82	2	69-106/13
107-06-2	1,2-Dichloroethane	10 U		125	127	102	124	99	2	70-111/14
78-87-5	1,2-Dichloropropane	10 U		125	136	109	134	107	1	71-113/12
142-28-9	1,3-Dichloropropane	10 U		125	109	87	105	84	4	69-106/12
594-20-7	2,2-Dichloropropane	10 U		125	122	98	113	90	8	68-130/14
124-48-1	Dibromochloromethane	10 U		125	111	89	111	89	0	69-104/12
75-71-8	Dichlorodifluoromethane	10 U		125	152	122*	155	124*	2	28-120/21
156-59-2	cis-1,2-Dichloroethylene	10 U		125	128	102	130	104	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	10 U		125	128	102	127	102	1	71-111/12
541-73-1	m-Dichlorobenzene	10 U		125	129	103	128	102	1	74-110/12
95-50-1	o-Dichlorobenzene	316		125	432	93	427	89	1	72-108/12
106-46-7	p-Dichlorobenzene	7.0	J	125	132	100	133	101	1	74-110/12
156-60-5	trans-1,2-Dichloroethylene	10 U		125	141	113	141	113	0	70-125/14
10061-02-6	trans-1,3-Dichloropropene	10 U		125	119	95	116	93	3	75-111/12
100-41-4	Ethylbenzene	10 U		125	120	96	118	94	2	75-112/12
591-78-6	2-Hexanone	50 U		625	529	85	515	82	3	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77398-8MS	F035042.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8MSD	F035043.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8	F035041.D	5	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Compound	T77398-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	10 U		125	111	89	122	98	9	72-123/17
98-82-8	Isopropylbenzene	10 U		125	155	124*	155	124*	0	75-123/12
99-87-6	p-Isopropyltoluene	10 U		125	131	105	131	105	0	76-116/12
108-10-1	4-Methyl-2-pentanone	50 U		625	590	94	578	92	2	63-115/21
74-83-9	Methyl bromide	10 U		125	146	117	150	120	3	59-132/15
74-87-3	Methyl chloride	10 U		125	140	112	144	115	3	56-150/17
74-95-3	Methylene bromide	10 U		125	120	96	118	94	2	68-114/13
75-09-2	Methylene chloride	25 U		125	133	106	129	103	3	70-113/13
78-93-3	Methyl ethyl ketone	50 U		625	546	87	530	85	3	62-117/21
1634-04-4	Methyl Tert Butyl Ether	111		125	212	81	208	78	2	65-113/13
91-20-3	Naphthalene	25 U		125	91.4	73	93.4	75	2	53-127/34
103-65-1	n-Propylbenzene	10 U		125	132	106	133	106	1	74-115/12
100-42-5	Styrene	10 U		125	120	96	119	95	1	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	10 U		125	120	96	120	96	0	72-108/11
71-55-6	1,1,1-Trichloroethane	10 U		125	148	118	147	118	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	10 U		125	108	86	108	86	0	67-110/20
79-00-5	1,1,2-Trichloroethane	10 U		125	108	86	107	86	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	10 U		125	96.4	77	99.7	80	3	51-128/31
96-18-4	1,2,3-Trichloropropane	10 U		125	112	90	116	93	4	55-116/27
120-82-1	1,2,4-Trichlorobenzene	10 U		125	109	87	110	88	1	63-114/21
95-63-6	1,2,4-Trimethylbenzene	10 U		125	125	100	125	100	0	73-111/13
108-67-8	1,3,5-Trimethylbenzene	10 U		125	124	99	125	100	1	74-115/12
127-18-4	Tetrachloroethylene	10 U		125	118	94	117	94	1	77-120/13
108-88-3	Toluene	10 U		125	119	95	119	95	0	77-114/12
79-01-6	Trichloroethylene	10 U		125	132	106	132	106	0	74-117/12
75-69-4	Trichlorofluoromethane	10 U		125	155	124	157	126	1	64-132/18
75-01-4	Vinyl chloride	10 U		125	133	106	138	110	4	64-121/19
1330-20-7	Xylene (total)	30 U		375	361	96	360	96	0	75-111/12
	m,p-Xylene	20 U		250	240	96	240	96	0	75-112/12
95-47-6	o-Xylene	10 U		125	121	97	120	96	1	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T77398-8	Limits
1868-53-7	Dibromofluoromethane	109%	109%	114%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	101%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T77374
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77398-8MS	F035042.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8MSD	F035043.D	5	06/07/11	AK	n/a	n/a	VF4288
T77398-8	F035041.D	5	06/06/11	AK	n/a	n/a	VF4288

The QC reported here applies to the following samples: **Method:** SW846 8260B

T77374-1, T77374-2

CAS No.	Surrogate Recoveries	MS	MSD	T77398-8	Limits
2037-26-5	Toluene-D8	104%	103%	110%	87-119%
460-00-4	4-Bromofluorobenzene	114%	114%	124%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T80122

Sampling Date: 06/29/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **40**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@55442 14:34 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T80122

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T80122-1	06/29/11	09:20		06/30/11	AQ	Ground Water	MW4
T80122-2	06/29/11	10:05		06/30/11	AQ	Ground Water	MW10
T80122-3	06/29/11	10:50		06/30/11	AQ	Ground Water	MW31R

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T80122
Site:	XDD/UT Collierville/031091	**Report Date**	7/18/2011 10:14:14 AM

3 Samples were collected on 06/29/2011 and received at Accutest on 06/30/2011 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of T80122. A listing of the Laboratory Sample ID, Client Sample ID and date of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VG120

- The method blank for this batch met method specific criteria.
- Sample(s) T80322-6MS, T80322-6MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VK39

- All samples were analyzed within the recommended method holding time.
- The method blank for this batch met method specific criteria.
- Sample(s) T80122-3MS, T80122-3MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery for 2,2-Dichloropropane was outside control limits. Probable cause due to matrix interference.

Metals By Method SW846 6010B

Matrix: AQ **Batch ID:** MP15177

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- The method blank for this batch met method specific criteria.
- Sample(s) T80122-2DUP, T80122-2MS, T80122-2MSD, T80122-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead, Zinc are outside control limits for sample MP15177-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T80122-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K00614.D	5	07/13/11	MH	n/a	n/a	VK39
Run #2	K00612.D	25	07/13/11	MH	n/a	n/a	VK39

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2470 [a]	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T80122-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	24.5	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
79-01-6	Trichloroethylene	2730 [a]	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	15	ug/l	
	m,p-Xylene	ND	10	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	75-121%
2037-26-5	Toluene-D8	94%	95%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T80122-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	97%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T80122-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	10.6	3.0	ug/l	1	07/06/11	07/12/11	EG	SW846 6010B [2]	SW846 3010A [3]
Zinc	1670	20	ug/l	1	07/06/11	07/10/11	EG	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5903
(2) Instrument QC Batch: MA5918
(3) Prep QC Batch: MP15177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T80122-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K00615.D	25	07/13/11	MH	n/a	n/a	VK39
Run #2	K00613.D	250	07/13/11	MH	n/a	n/a	VK39

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1300	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
104-51-8	n-Butylbenzene	ND	25	ug/l	
135-98-8	sec-Butylbenzene	ND	25	ug/l	
98-06-6	tert-Butylbenzene	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	25	ug/l	
106-43-4	p-Chlorotoluene	ND	25	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	188	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
541-73-1	m-Dichlorobenzene	ND	25	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	ug/l	
106-46-7	p-Dichlorobenzene	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T80122-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	ug/l	
74-83-9	Methyl bromide	ND	25	ug/l	
74-87-3	Methyl chloride	ND	25	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	ND	130	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	25	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	ug/l	
127-18-4	Tetrachloroethylene	ND	25	ug/l	
108-88-3	Toluene	ND	25	ug/l	
79-01-6	Trichloroethylene	36400 [a]	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	25	ug/l	
75-01-4	Vinyl chloride	ND	25	ug/l	
1330-20-7	Xylene (total)	ND	75	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	75-121%
2037-26-5	Toluene-D8	95%	95%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T80122-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	99%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T80122-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	3.5	3.0	ug/l	1	07/06/11	07/12/11	EG	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	07/06/11	07/09/11	EG	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5903
(2) Instrument QC Batch: MA5918
(3) Prep QC Batch: MP15177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T80122-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K00609.D	1	07/13/11	MH	n/a	n/a	VK39
Run #2	G002888.D	1	07/13/11	JL	n/a	n/a	VG120

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND [a]	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T80122-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	1.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	84%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	79%	75-121%
2037-26-5	Toluene-D8	94%	95%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T80122-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	94%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T80122-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	13.2	3.0	ug/l	1	07/06/11	07/12/11	EG	SW846 6010B [2]	SW846 3010A [3]
Zinc	101	20	ug/l	1	07/06/11	07/10/11	EG	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5903
(2) Instrument QC Batch: MA5918
(3) Prep QC Batch: MP15177

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # T80122

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: m.allen@sasenvironmental.com
Phone #: 3306661546 Fax #: 3306667443
Sampler(s) Name(s): J FRANK O'CONNELL JR Phone #: 3306661546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC8260 FULL LIST	LEAD/ZINC	LAB USE ONLY
1	MW 4	6-29-11	920	JFO	GW	4	3			1									X	X	
2	MW 10	6-29-11	1005	JFO	GW	4	3			1									X	X	
3	MW 31R	6-29-11	1050	JFO	GW	4	3			1									X	X	
4	TEMP BLANK																				

JFO

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)
- [X] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions
LOG IN UNDER UTC
BILL TO XDD-LLC
EMAIL RESULTS TO JFO121@aol.com
STANDARD TAT

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6-29-11 / 1455	1 FED EX	2 FED EX	6-29-11 / 1455	2 [signature]
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	☐ Intact	Preserved where applicable / On Ice / Cooler Temp

T80122: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T80122 **Client:** SAS ENVIRONMENTAL INC **Project:** UT COLLIERVILLE

Date / Time Received: 6/30/2011 **Delivery Method:** FedEx **Airbill #'s:** 875387843439

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** -0.5;

Cooler Temps (Initial/Adjusted): #1: (3/2.5);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	or N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Broken / Leaking	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments MW-4 RECEIVED OPEN IN COOLER 50% FULL

6/30/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www.accutest.com

T80122: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T80122 **Date / Time Received:** 6/30/2011 10:00:00 AM **Initials:** BG

Client: SAS ENVIRONMENTAL INC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T80122-1	500 ml	1	1FF	HNO3	pH < 2	110	3	-0.5	2.5
1	T80122-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-2	500 ml	1	1FF	HNO3	pH < 2	110	3	-0.5	2.5
1	T80122-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-3	500 ml	1	1FF	HNO3	pH < 2	110	3	-0.5	2.5
1	T80122-3	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-3	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80122-3	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5

T80122: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-MB	K00595.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-MB	K00595.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%

Method Blank Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-MB	K00595.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Method Blank Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG120-MB	G002881.D	1	07/13/11	JL	n/a	n/a	VG120

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-3

CAS No.	Compound	Result	RL	Units	Q
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	85%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	93%	80-133%

Blank Spike Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-BS	K00591.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	62-124
71-43-2	Benzene	25	23.7	95	76-118
108-86-1	Bromobenzene	25	23.2	93	72-110
74-97-5	Bromochloromethane	25	22.7	91	69-110
75-27-4	Bromodichloromethane	25	22.9	92	68-107
75-25-2	Bromoform	25	20.3	81	64-103
104-51-8	n-Butylbenzene	25	23.4	94	74-114
135-98-8	sec-Butylbenzene	25	24.4	98	76-118
98-06-6	tert-Butylbenzene	25	24.6	98	72-116
108-90-7	Chlorobenzene	25	23.7	95	74-111
75-00-3	Chloroethane	25	22.5	90	75-135
67-66-3	Chloroform	25	23.6	94	75-117
95-49-8	o-Chlorotoluene	25	23.5	94	74-113
106-43-4	p-Chlorotoluene	25	24.0	96	72-114
75-15-0	Carbon disulfide	25	23.8	95	57-126
56-23-5	Carbon tetrachloride	25	25.4	102	75-125
75-34-3	1,1-Dichloroethane	25	24.4	98	76-121
75-35-4	1,1-Dichloroethylene	25	26.8	107	71-128
563-58-6	1,1-Dichloropropene	25	25.5	102	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.2	93	55-121
106-93-4	1,2-Dibromoethane	25	23.5	94	69-106
107-06-2	1,2-Dichloroethane	25	23.9	96	70-111
78-87-5	1,2-Dichloropropane	25	24.1	96	71-113
142-28-9	1,3-Dichloropropane	25	23.5	94	69-106
594-20-7	2,2-Dichloropropane	25	22.1	88	68-130
124-48-1	Dibromochloromethane	25	23.1	92	69-104
75-71-8	Dichlorodifluoromethane	25	24.5	98	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.9	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	71-111
541-73-1	m-Dichlorobenzene	25	23.1	92	74-110
95-50-1	o-Dichlorobenzene	25	23.5	94	72-108
106-46-7	p-Dichlorobenzene	25	23.0	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.5	94	75-111
100-41-4	Ethylbenzene	25	23.8	95	75-112
591-78-6	2-Hexanone	125	110	88	60-113

Blank Spike Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-BS	K00591.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	25.4	102	72-123
98-82-8	Isopropylbenzene	25	27.8	111	75-123
99-87-6	p-Isopropyltoluene	25	24.5	98	76-116
108-10-1	4-Methyl-2-pentanone	125	111	89	63-115
74-83-9	Methyl bromide	25	21.3	85	59-132
74-87-3	Methyl chloride	25	22.3	89	56-150
74-95-3	Methylene bromide	25	23.7	95	68-114
75-09-2	Methylene chloride	25	23.3	93	70-113
78-93-3	Methyl ethyl ketone	125	111	89	62-117
1634-04-4	Methyl Tert Butyl Ether	25	22.1	88	65-113
91-20-3	Naphthalene	25	22.9	92	53-127
103-65-1	n-Propylbenzene	25	24.3	97	74-115
100-42-5	Styrene	25	23.5	94	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	24.1	96	72-108
71-55-6	1,1,1-Trichloroethane	25	24.8	99	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.3	93	67-110
79-00-5	1,1,2-Trichloroethane	25	23.9	96	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.4	94	51-128
96-18-4	1,2,3-Trichloropropane	25	22.0	88	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.3	93	63-114
95-63-6	1,2,4-Trimethylbenzene	25	23.0	92	73-111
108-67-8	1,3,5-Trimethylbenzene	25	23.0	92	74-115
127-18-4	Tetrachloroethylene	25	23.3	93	77-120
108-88-3	Toluene	25	23.8	95	77-114
79-01-6	Trichloroethylene	25	24.5	98	74-117
75-69-4	Trichlorofluoromethane	25	17.6	70	64-132
75-01-4	Vinyl chloride	25	20.0	80	64-121
1330-20-7	Xylene (total)	75	71.3	95	75-111
	m,p-Xylene	50	47.6	95	75-112
95-47-6	o-Xylene	25	23.7	95	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%

Blank Spike Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK39-BS	K00591.D	1	07/12/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Blank Spike Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG120-BS	G002878.D	1	07/13/11	JL	n/a	n/a	VG120

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-35-4	1,1-Dichloroethylene	25	26.2	105	71-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80122-3MS	K00610.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3MSD	K00611.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3	K00609.D	1	07/13/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	T80122-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	132	106	127	102	4	62-124/21
71-43-2	Benzene	ND		25	24.8	99	24.7	99	0	76-118/16
108-86-1	Bromobenzene	ND		25	24.1	96	23.9	96	1	72-110/12
74-97-5	Bromochloromethane	ND		25	23.8	95	23.6	94	1	69-110/12
75-27-4	Bromodichloromethane	ND		25	24.4	98	24.0	96	2	68-107/12
75-25-2	Bromoform	ND		25	22.1	88	21.7	87	2	64-103/14
104-51-8	n-Butylbenzene	ND		25	22.4	90	22.7	91	1	74-114/12
135-98-8	sec-Butylbenzene	ND		25	24.2	97	24.4	98	1	76-118/12
98-06-6	tert-Butylbenzene	ND		25	24.1	96	25.0	100	4	72-116/14
108-90-7	Chlorobenzene	ND		25	24.4	98	24.4	98	0	74-111/11
75-00-3	Chloroethane	ND		25	25.3	101	25.4	102	0	75-135/15
67-66-3	Chloroform	ND		25	25.0	100	25.0	100	0	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.7	95	24.2	97	2	74-113/12
106-43-4	p-Chlorotoluene	ND		25	24.1	96	24.8	99	3	72-114/12
75-15-0	Carbon disulfide	ND		25	25.0	100	24.8	99	1	57-126/13
56-23-5	Carbon tetrachloride	ND		25	26.2	105	25.9	104	1	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.6	102	25.3	101	1	76-121/13
75-35-4	1,1-Dichloroethylene	3.3		25	29.0	103	28.2	100	3	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	27.1	108	26.6	106	2	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.2	101	24.3	97	4	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	25.5	102	25.2	101	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	25.5	102	25.2	101	1	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.6	102	25.1	100	2	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	24.7	99	23.9	96	3	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	17.3	69	16.6	66*	4	68-130/14
124-48-1	Dibromochloromethane	ND		25	24.6	98	24.1	96	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	26.5	106	26.3	105	1	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.2		25	26.8	102	26.0	99	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.8	91	22.4	90	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	23.5	94	23.9	96	2	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	23.9	96	23.9	96	0	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	23.1	92	23.6	94	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.0	104	25.7	103	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.9	96	23.5	94	2	75-111/12
100-41-4	Ethylbenzene	ND		25	24.7	99	24.4	98	1	75-112/12
591-78-6	2-Hexanone	ND		125	125	100	121	97	3	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80122-3MS	K00610.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3MSD	K00611.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3	K00609.D	1	07/13/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Compound	T80122-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	21.3	85	22.1	88	4	72-123/17
98-82-8	Isopropylbenzene	ND		25	27.9	112	28.2	113	1	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	24.3	97	24.0	96	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	126	101	123	98	2	63-115/21
74-83-9	Methyl bromide	ND		25	22.0	88	21.7	87	1	59-132/15
74-87-3	Methyl chloride	ND		25	25.2	101	23.9	96	5	56-150/17
74-95-3	Methylene bromide	ND		25	25.1	100	25.3	101	1	68-114/13
75-09-2	Methylene chloride	ND		25	23.6	94	23.4	94	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	131	105	127	102	3	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.8	95	23.8	95	0	65-113/13
91-20-3	Naphthalene	ND		25	24.4	98	24.1	96	1	53-127/34
103-65-1	n-Propylbenzene	ND		25	24.3	97	24.3	97	0	74-115/12
100-42-5	Styrene	ND		25	24.1	96	23.8	95	1	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	25.2	101	25.5	102	1	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	26.9	108	26.2	105	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.2	101	24.8	99	2	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	24.8	99	25.2	101	2	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	23.0	92	23.2	93	1	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	24.9	100	24.2	97	3	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	23.5	94	23.5	94	0	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.5	94	23.7	95	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.0	92	23.4	94	2	74-115/12
127-18-4	Tetrachloroethylene	ND		25	23.8	95	23.8	95	0	77-120/13
108-88-3	Toluene	0.34		25	24.8	98	24.6	97	1	77-114/12
79-01-6	Trichloroethylene	1.5		25	27.1	102	26.5	100	2	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	18.9	76	19.0	76	1	64-132/18
75-01-4	Vinyl chloride	ND		25	22.8	91	22.1	88	3	64-121/19
1330-20-7	Xylene (total)	ND		75	73.9	99	72.8	97	1	75-111/12
	m,p-Xylene	ND		50	49.3	99	48.4	97	2	75-112/12
95-47-6	o-Xylene	ND		25	24.6	98	24.4	98	1	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T80122-3	Limits
1868-53-7	Dibromofluoromethane	97%	98%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	96%	94%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80122-3MS	K00610.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3MSD	K00611.D	1	07/13/11	MH	n/a	n/a	VK39
T80122-3	K00609.D	1	07/13/11	MH	n/a	n/a	VK39

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-1, T80122-2, T80122-3

CAS No.	Surrogate Recoveries	MS	MSD	T80122-3	Limits
2037-26-5	Toluene-D8	93%	96%	94%	87-119%
460-00-4	4-Bromofluorobenzene	94%	97%	99%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80122
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80322-6MS	G002883.D	5	07/13/11	JL	n/a	n/a	VG120
T80322-6MSD	G002884.D	5	07/13/11	JL	n/a	n/a	VG120
T80322-6	G002882.D	5	07/13/11	JL	n/a	n/a	VG120

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80122-3

CAS No.	Compound	T80322-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-35-4	1,1-Dichloroethylene	ND		125	128	102	122	98	5	71-128/19

CAS No.	Surrogate Recoveries	MS	MSD	T80322-6	Limits
1868-53-7	Dibromofluoromethane	88%	87%	86%	79-122%
17060-07-0	1,2-Dichloroethane-D4	81%	81%	80%	75-121%
2037-26-5	Toluene-D8	98%	96%	98%	87-119%
460-00-4	4-Bromofluorobenzene	94%	94%	95%	80-133%

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T80122
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15177
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.020	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.52	<20

Associated samples MP15177: T80122-1, T80122-2, T80122-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T80122
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15177
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			07/06/11					07/06/11	
Metal	T80122-2 Original	DUP	RPD	QC Limits	T80122-2 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron									
Lead	3.5	3.4	2.9	0-20	3.5	384	400	95.1	80-120
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	15.1	14.1	6.8	0-20	15.1	430	400	103.7	80-120

Associated samples MP15177: T80122-1, T80122-2, T80122-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T80122
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15177 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/06/11

Metal	T80122-2 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	3.5	383	400	94.9	0.3	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	15.1	423	400	102.0	1.6	20

Associated samples MP15177: T80122-1, T80122-2, T80122-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T80122
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15177
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	381	400	95.3	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	419	400	104.8	80-120

Associated samples MP15177: T80122-1, T80122-2, T80122-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T80122
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15177
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	T80122-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	3.51	6.00	70.9 (a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	15.1	27.4	81.6 (a)	0-10

Associated samples MP15177: T80122-1, T80122-2, T80122-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T80128

Sampling Date: 06/29/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **36**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Accutest LabLink@55445 14:44 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T80128

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T80128-1	06/29/11	12:15		06/30/11	AQ	Ground Water	MW62
T80128-2	06/29/11	13:00		06/30/11	AQ	Ground Water	MW60
T80128-3	06/29/11	13:05		06/30/11	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T80128
Site:	XDD/UT Collierville/031091	**Report Date**	7/18/2011 8:46:43 AM

3 Samples were collected on 06/29/2011 and received at Accutest on 06/30/2011 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of T80128. A listing of the Laboratory Sample ID, Client Sample ID and date of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ3297

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T80685-1MS, T80685-1MSD were used as the QC samples indicated.
- Blank Spike Recovery for Dichlorodifluoromethane are outside control limits.
- Matrix Spike Recovery(s) for 2,2-Dichloropropane, n-Butylbenzene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,2-Dichloropropane are outside control limits. Probable cause due to matrix interference.

Metals By Method SW846 6010B

Matrix: AQ **Batch ID:** MP15171

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T80128-1DUP, T80128-1MS, T80128-1MSD, T80128-1SDL, T80128-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Zinc are outside control limits for sample MP15171-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Chromium, Lead, Zinc are outside control limits for sample MP15171-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T80128-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z018338.D	1	07/12/11	DR	n/a	n/a	VZ3297
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T80128-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	100%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T80128-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T80128-1	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5892
(2) Prep QC Batch: MP15171

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T80128-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z018339.D	1	07/12/11	DR	n/a	n/a	VZ3297
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T80128-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	100%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T80128-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T80128-2	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	07/06/11	07/06/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5892
(2) Prep QC Batch: MP15171

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T80128-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z018340.D	1	07/12/11	DR	n/a	n/a	VZ3297
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T80128-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	101%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T80128-3	**Date Sampled:**	06/29/11
Matrix:	AQ - Ground Water	**Date Received:**	06/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # T80128

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. CLEVE MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFRANK O'CONNELL JR Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: BILL TO XDD
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)

Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 FULL LIST	LEAD/ZINC/TOTAL CT	LAB USE ONLY
1	MW 62	6-29-11	1215	JFO	GW	4	3			1									X	X	
2	MW 60	6-29-11	1300	JFO	GW	4	3			1									X	X	
3	DUPLICATE	6-29-11	1305	JFO	GW	3	3												X		

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
BILL XDD-LLC
EMAIL RESULTS to JFO121@aol.com
STANDARD TAT

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6-29-11/1455	1 FEDEX	2 FEDEX	6-29-11/1455	2 [signature]
3		3	4		4
5					

Custody Seal # ☐ Intact Preserved where applicable On Ice Cooler Temp.

T80128: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T80128 **Client:** SAS ENVIRONMENTAL INC **Project:** UT COLLERVILLE

Date / Time Received: 6/30/2011 **Delivery Method:** FedEx **Airbill #'s:** 875387843439

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** -0.5;

Cooler Temps (Initial/Adjusted): #1: (3/2.5);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	or N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

6/30/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T80128: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T80128 **Date / Time Received:** 6/30/2011 10:00:00 AM **Initials:** BG

Client: SAS ENVIRONMENTAL INC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T80128-1	500 ml	1	1FF	HNO3	pH < 2	110	3	-0.5	2.5
1	T80128-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-2	500 ml	1	1FF	HNO3	pH < 2	110	3	-0.5	2.5
1	T80128-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-3	40 ml	1	VR	HCL	pH < 2	110	3	-0.5	2.5
1	T80128-3	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5
1	T80128-3	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	3	-0.5	2.5

T80128: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-MB	Z018323.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-MB	Z018323.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%

Method Blank Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-MB	Z018323.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	94%	80-133%

Blank Spike Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-BS	Z018321.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	125	100	62-124
71-43-2	Benzene	25	25.8	103	76-118
108-86-1	Bromobenzene	25	22.9	92	72-110
74-97-5	Bromochloromethane	25	23.8	95	69-110
75-27-4	Bromodichloromethane	25	23.3	93	68-107
75-25-2	Bromoform	25	21.1	84	64-103
104-51-8	n-Butylbenzene	25	20.8	83	74-114
135-98-8	sec-Butylbenzene	25	23.5	94	76-118
98-06-6	tert-Butylbenzene	25	23.9	96	72-116
108-90-7	Chlorobenzene	25	23.7	95	74-111
75-00-3	Chloroethane	25	31.8	127	75-135
67-66-3	Chloroform	25	24.0	96	75-117
95-49-8	o-Chlorotoluene	25	24.0	96	74-113
106-43-4	p-Chlorotoluene	25	23.9	96	72-114
75-15-0	Carbon disulfide	25	27.7	111	57-126
56-23-5	Carbon tetrachloride	25	25.8	103	75-125
75-34-3	1,1-Dichloroethane	25	25.2	101	76-121
75-35-4	1,1-Dichloroethylene	25	28.9	116	71-128
563-58-6	1,1-Dichloropropene	25	26.6	106	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.2	81	55-121
106-93-4	1,2-Dibromoethane	25	23.0	92	69-106
107-06-2	1,2-Dichloroethane	25	24.0	96	70-111
78-87-5	1,2-Dichloropropane	25	26.0	104	71-113
142-28-9	1,3-Dichloropropane	25	22.6	90	69-106
594-20-7	2,2-Dichloropropane	25	25.5	102	68-130
124-48-1	Dibromochloromethane	25	23.3	93	69-104
75-71-8	Dichlorodifluoromethane	25	30.9	124* [a]	28-120
156-59-2	cis-1,2-Dichloroethylene	25	24.6	98	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.9	96	71-111
541-73-1	m-Dichlorobenzene	25	23.5	94	74-110
95-50-1	o-Dichlorobenzene	25	22.9	92	72-108
106-46-7	p-Dichlorobenzene	25	23.3	93	74-110
156-60-5	trans-1,2-Dichloroethylene	25	23.4	94	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.2	93	75-111
100-41-4	Ethylbenzene	25	24.5	98	75-112
591-78-6	2-Hexanone	125	96.0	77	60-113

Blank Spike Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-BS	Z018321.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	21.5	86	72-123
98-82-8	Isopropylbenzene	25	24.9	100	75-123
99-87-6	p-Isopropyltoluene	25	21.5	86	76-116
108-10-1	4-Methyl-2-pentanone	125	118	94	63-115
74-83-9	Methyl bromide	25	30.7	123	59-132
74-87-3	Methyl chloride	25	28.7	115	56-150
74-95-3	Methylene bromide	25	23.0	92	68-114
75-09-2	Methylene chloride	25	25.4	102	70-113
78-93-3	Methyl ethyl ketone	125	122	98	62-117
1634-04-4	Methyl Tert Butyl Ether	25	23.5	94	65-113
91-20-3	Naphthalene	25	20.5	82	53-127
103-65-1	n-Propylbenzene	25	23.9	96	74-115
100-42-5	Styrene	25	24.1	96	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	23.2	93	72-108
71-55-6	1,1,1-Trichloroethane	25	25.0	100	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	67-110
79-00-5	1,1,2-Trichloroethane	25	23.4	94	69-107
87-61-6	1,2,3-Trichlorobenzene	25	20.6	82	51-128
96-18-4	1,2,3-Trichloropropane	25	21.6	86	55-116
120-82-1	1,2,4-Trichlorobenzene	25	21.0	84	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.9	92	73-111
108-67-8	1,3,5-Trimethylbenzene	25	22.3	89	74-115
127-18-4	Tetrachloroethylene	25	24.6	98	77-120
108-88-3	Toluene	25	24.4	98	77-114
79-01-6	Trichloroethylene	25	23.9	96	74-117
75-69-4	Trichlorofluoromethane	25	29.2	117	64-132
75-01-4	Vinyl chloride	25	26.2	105	64-121
1330-20-7	Xylene (total)	75	71.9	96	75-111
	m,p-Xylene	50	48.3	97	75-112
95-47-6	o-Xylene	25	23.6	94	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%

Blank Spike Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3297-BS	Z018321.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS. AZ: L1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80685-1MS	Z018328.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1MSD	Z018329.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1	Z018327.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	T80685-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	136	109	137	110	1	62-124/21
71-43-2	Benzene	1.0 U		25	24.3	97	24.0	96	1	76-118/16
108-86-1	Bromobenzene	1.0 U		25	21.9	88	21.4	86	2	72-110/12
74-97-5	Bromochloromethane	1.0 U		25	23.5	94	23.7	95	1	69-110/12
75-27-4	Bromodichloromethane	1.0 U		25	22.1	88	22.6	90	2	68-107/12
75-25-2	Bromoform	1.0 U		25	19.8	79	20.2	81	2	64-103/14
104-51-8	n-Butylbenzene	1.0 U		25	18.3	73* [a]	18.5	74	1	74-114/12
135-98-8	sec-Butylbenzene	1.0 U		25	20.9	84	20.7	83	1	76-118/12
98-06-6	tert-Butylbenzene	1.0 U		25	21.6	86	21.5	86	0	72-116/14
108-90-7	Chlorobenzene	1.0 U		25	22.3	89	22.4	90	0	74-111/11
75-00-3	Chloroethane	1.0 U		25	26.7	107	27.8	111	4	75-135/15
67-66-3	Chloroform	1.0 U		25	23.0	92	23.2	93	1	75-117/12
95-49-8	o-Chlorotoluene	1.0 U		25	22.3	89	21.7	87	3	74-113/12
106-43-4	p-Chlorotoluene	1.0 U		25	21.8	87	22.0	88	1	72-114/12
75-15-0	Carbon disulfide	1.0 U		25	22.7	91	23.2	93	2	57-126/13
56-23-5	Carbon tetrachloride	1.0 U		25	22.8	91	22.4	90	2	75-125/12
75-34-3	1,1-Dichloroethane	1.0 U		25	24.4	98	24.1	96	1	76-121/13
75-35-4	1,1-Dichloroethylene	1.0 U		25	23.4	94	24.0	96	3	71-128/19
563-58-6	1,1-Dichloropropene	1.0 U		25	24.2	97	23.5	94	3	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	21.7	87	21.7	87	0	55-121/33
106-93-4	1,2-Dibromoethane	1.0 U		25	23.4	94	24.1	96	3	69-106/13
107-06-2	1,2-Dichloroethane	1.0 U		25	23.4	94	23.6	94	1	70-111/14
78-87-5	1,2-Dichloropropane	1.0 U		25	24.7	99	24.6	98	0	71-113/12
142-28-9	1,3-Dichloropropane	1.0 U		25	24.2	97	24.2	97	0	69-106/12
594-20-7	2,2-Dichloropropane	1.0 U		25	13.2	53* [a]	12.9	52* [a]	2	68-130/14
124-48-1	Dibromochloromethane	1.0 U		25	22.8	91	23.0	92	1	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		25	19.4	78	19.7	79	2	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	23.8	95	23.3	93	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	21.0	84	21.4	86	2	71-111/12
541-73-1	m-Dichlorobenzene	1.0 U		25	21.9	88	22.0	88	0	74-110/12
95-50-1	o-Dichlorobenzene	1.0 U		25	22.3	89	22.4	90	0	72-108/12
106-46-7	p-Dichlorobenzene	1.0 U		25	21.8	87	21.9	88	0	74-110/12
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	22.3	89	22.0	88	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	21.9	88	21.7	87	1	75-111/12
100-41-4	Ethylbenzene	1.0 U		25	22.6	90	22.5	90	0	75-112/12
591-78-6	2-Hexanone	10 U		125	106	85	106	85	0	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80685-1MS	Z018328.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1MSD	Z018329.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1	Z018327.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Compound	T80685-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	1.0	U	25	18.9	76	19.9	80	5	72-123/17
98-82-8	Isopropylbenzene	1.0	U	25	23.2	93	22.8	91	2	75-123/12
99-87-6	p-Isopropyltoluene	1.0	U	25	19.6	78	19.5	78	1	76-116/12
108-10-1	4-Methyl-2-pentanone	10	U	125	123	98	127	102	3	63-115/21
74-83-9	Methyl bromide	1.0	U	25	23.6	94	24.1	96	2	59-132/15
74-87-3	Methyl chloride	1.0	U	25	23.4	94	23.6	94	1	56-150/17
74-95-3	Methylene bromide	1.0	U	25	22.7	91	22.5	90	1	68-114/13
75-09-2	Methylene chloride	5.0	U	25	22.3	89	22.9	92	3	70-113/13
78-93-3	Methyl ethyl ketone	10	U	125	127	102	129	103	2	62-117/21
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	24.0	96	24.0	96	0	65-113/13
91-20-3	Naphthalene	5.0	U	25	20.6	82	21.0	84	2	53-127/34
103-65-1	n-Propylbenzene	1.0	U	25	21.5	86	21.1	84	2	74-115/12
100-42-5	Styrene	1.0	U	25	21.4	86	22.0	88	3	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	22.0	88	22.5	90	2	72-108/11
71-55-6	1,1,1-Trichloroethane	1.0	U	25	22.7	91	22.1	88	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	24.4	98	24.1	96	1	67-110/20
79-00-5	1,1,2-Trichloroethane	1.0	U	25	24.2	97	24.0	96	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	20.1	80	20.6	82	2	51-128/31
96-18-4	1,2,3-Trichloropropane	1.0	U	25	22.3	89	22.0	88	1	55-116/27
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	19.9	80	20.2	81	1	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1.0	U	25	21.4	86	21.1	84	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	1.0	U	25	20.7	83	20.8	83	0	74-115/12
127-18-4	Tetrachloroethylene	1.0	U	25	23.0	92	22.2	89	4	77-120/13
108-88-3	Toluene	1.0	U	25	23.9	96	23.6	94	1	77-114/12
79-01-6	Trichloroethylene	1.0	U	25	22.1	88	21.8	87	1	74-117/12
75-69-4	Trichlorofluoromethane	1.0	U	25	23.2	93	23.1	92	0	64-132/18
75-01-4	Vinyl chloride	1.0	U	25	20.6	82	21.2	85	3	64-121/19
1330-20-7	Xylene (total)	3.0	U	75	65.6	87	65.7	88	0	75-111/12
	m,p-Xylene	2.0	U	50	44.2	88	44.1	88	0	75-112/12
95-47-6	o-Xylene	1.0	U	25	21.5	86	21.6	86	0	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T80685-1	Limits
1868-53-7	Dibromofluoromethane	96%	95%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	93%	92%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80128
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T80685-1MS	Z018328.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1MSD	Z018329.D	1	07/12/11	DR	n/a	n/a	VZ3297
T80685-1	Z018327.D	1	07/12/11	DR	n/a	n/a	VZ3297

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80128-1, T80128-2, T80128-3

CAS No.	Surrogate Recoveries	MS	MSD	T80685-1	Limits
2037-26-5	Toluene-D8	101%	102%	110%	87-119%
460-00-4	4-Bromofluorobenzene	94%	95%	94%	80-133%

(a) AZ: M2

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T80128
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15171
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27	-0.25	<10
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	-0.40	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	0.60	<20

Associated samples MP15171: T80128-1, T80128-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T80128
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15171
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Metal	T80128-1 Original	DUP	RPD	QC Limits	T80128-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Prep Date:			07/06/11					07/06/11	
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	0.27	0.30	10.5	0-20	0.27	436	400	108.9	80-120
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	1.5	1.5	0.0	0-20	1.5	396	400	98.6	80-120
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	3.1	2.1	38.5 (a)	0-20	3.1	451	400	112.0	80-120

Associated samples MP15171: T80128-1, T80128-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T80128
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15171
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	T80128-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	0.27	433	400	108.2	0.7	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	1.5	393	400	97.9	0.8	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	3.1	441	400	109.5	2.2	20

Associated samples MP15171: T80128-1, T80128-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T80128
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15171
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	419	400	104.8	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	377	400	94.3	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	446	400	111.5	80-120

Associated samples MP15171: T80128-1, T80128-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T80128
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15171
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/11

Metal	T80128-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	0.270	0.00	100.0(a)	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	1.50	0.00	100.0(a)	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	3.10	10.5	237.1(a)	0-10

Associated samples MP15171: T80128-1, T80128-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T80674

Sampling Date: 07/07/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@55450 15:26 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T80674

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T80674-1	07/07/11	13:20		07/07/11	AQ	Effluent	WP2 EFF
T80674-2	07/07/11	13:25		07/07/11	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T80674
Site:	XDD/UT Collierville/031091	**Report Date**	7/21/2011 10:26:48 AM

2 Samples were collected on 07/07/2011 and received at Accutest on 07/07/2011 properly preserved, at 2.9 Deg. C and intact. These Samples received an Accutest job number of T80674. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF4337

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T81021-1MS, T81021-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Bromodichloromethane, Bromoform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Styrene, trans-1,3-Dichloropropene are outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Acetone, Bromoform, Dibromochloromethane are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, Acetone, Bromoform, Dibromochloromethane are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T80674-1	**Date Sampled:**	07/07/11
Matrix:	AQ - Effluent	**Date Received:**	07/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F036184.D	1	07/16/11	AK	n/a	n/a	VF4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T80674-1	**Date Sampled:**	07/07/11
Matrix:	AQ - Effluent	**Date Received:**	07/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	116%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T80674-2	**Date Sampled:**	07/07/11
Matrix:	AQ - Influent	**Date Received:**	07/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F036185.D	1	07/16/11	AK	n/a	n/a	VF4337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	46.9	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T80674-2	**Date Sampled:**	07/07/11
Matrix:	AQ - Influent	**Date Received:**	07/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	117%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T80674

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1270 S. Cleve-Mass Rd
City: Akron State: OH Zip: 44321
Project Contact: MARK V. AHEN E-mail: mahen@SASENVIRONMENTAL.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): FRANK O'Connell Phone #: 330 666 1546

Project Information

Project Name: UT Collegeville
Street: 97 S. Bynaria Rd
City: Collegeville State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: MARK V. AHEN
Attention: BRUCE CUFF

Billing Information (if different from Report to)

Company Name: XDD-LLC
Street Address: 22 MARW WAY UNIT 3
City: STRATHAM State: NH Zip: 03885

Requested Analyses

VOC 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	7-6-11	1320	JFO	GW	3	3												X	
2	WP2 INF	7-6-11	1325	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [X] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com
Bill XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery. 7/7/11 0950

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7-6-11 / 1540	1 FED EX	2 FED EX	7-6-11 / 1540	2 ALGC Dawn Audd Slater 7/7/11 0950
3		3	4		4
5		5			

Custody Seal #: [ ] Intact [ ] Not Intact
Preserved where applicable: [ ]
On Ice: [✓]
Cooler Temp. 2.9°C

T80674: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T80674 **Client:** SAS ENVIRONMENTAL **Project:** UT COLLIERVILLE

Date / Time Received: 7/7/2011 09:50 **Delivery Method:** FedEx **Airbill #'s:** 873170210687

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (3/2.9);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

7/7/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www.accutest.com

T80674: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T80674 **Date / Time Received:** 7/7/2011 9:50:00 AM **Initials:** DARRELLH

Client: SAS ENVIRONMENTAL

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T80674-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9
1	T80674-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9
1	T80674-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9
1	T80674-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9
1	T80674-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9
1	T80674-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3	-0.1	2.9

T80674: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4337-MB	F036174.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

Method Blank Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4337-MB	F036174.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	117%	80-133%

Blank Spike Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4337-BS	F036172.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	168	134* [a]	62-124
71-43-2	Benzene	25	28.6	114	76-118
75-27-4	Bromodichloromethane	25	28.7	115* [a]	68-107
75-25-2	Bromoform	25	28.6	114* [a]	64-103
108-90-7	Chlorobenzene	25	26.9	108	74-111
75-00-3	Chloroethane	25	28.5	114	75-135
67-66-3	Chloroform	25	27.2	109	75-117
75-15-0	Carbon disulfide	25	27.9	112	57-126
56-23-5	Carbon tetrachloride	25	27.8	111	75-125
75-34-3	1,1-Dichloroethane	25	28.7	115	76-121
75-35-4	1,1-Dichloroethylene	25	31.5	126	71-128
107-06-2	1,2-Dichloroethane	25	29.0	116* [a]	70-111
78-87-5	1,2-Dichloropropane	25	28.4	114* [a]	71-113
124-48-1	Dibromochloromethane	25	28.0	112* [a]	69-104
156-59-2	cis-1,2-Dichloroethylene	25	28.4	114* [a]	68-113
10061-01-5	cis-1,3-Dichloropropene	25	29.0	116* [a]	71-111
156-60-5	trans-1,2-Dichloroethylene	25	29.4	118	70-125
10061-02-6	trans-1,3-Dichloropropene	25	30.2	121* [a]	75-111
100-41-4	Ethylbenzene	25	26.5	106	75-112
591-78-6	2-Hexanone	125	145	116* [a]	60-113
108-10-1	4-Methyl-2-pentanone	125	151	121* [a]	63-115
74-83-9	Methyl bromide	25	29.1	116	59-132
74-87-3	Methyl chloride	25	31.6	126	56-150
75-09-2	Methylene chloride	25	27.4	110	70-113
78-93-3	Methyl ethyl ketone	125	143	114	62-117
100-42-5	Styrene	25	27.7	111* [a]	76-110
71-55-6	1,1,1-Trichloroethane	25	29.4	118	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	31.9	128* [a]	67-110
79-00-5	1,1,2-Trichloroethane	25	27.9	112* [a]	69-107
127-18-4	Tetrachloroethylene	25	27.1	108	77-120
108-88-3	Toluene	25	27.0	108	77-114
79-01-6	Trichloroethylene	25	29.1	116	74-117
75-01-4	Vinyl chloride	25	26.1	104	64-121
1330-20-7	Xylene (total)	75	81.5	109	75-111

Blank Spike Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4337-BS	F036172.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	110%	75-121%
2037-26-5	Toluene-D8	109%	87-119%
460-00-4	4-Bromofluorobenzene	113%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81021-1MS	F036176.D	1	07/15/11	AK	n/a	n/a	VF4337
T81021-1MSD	F036177.D	1	07/15/11	AK	n/a	n/a	VF4337
T81021-1	F036175.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Compound	T81021-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	171	137*	168	134*	2	62-124/21
71-43-2	Benzene	ND		25	26.4	106	26.2	105	1	76-118/16
75-27-4	Bromodichloromethane	3.5		25	30.3	107	30.1	106	1	68-107/12
75-25-2	Bromoform	0.93		25	27.9	108*	27.8	107*	0	64-103/14
108-90-7	Chlorobenzene	ND		25	24.8	99	24.8	99	0	74-111/11
75-00-3	Chloroethane	ND		25	27.6	110	26.9	108	3	75-135/15
67-66-3	Chloroform	3.4		25	28.8	102	28.3	100	2	75-117/12
75-15-0	Carbon disulfide	ND		25	25.6	102	25.1	100	2	57-126/13
56-23-5	Carbon tetrachloride	ND		25	25.8	103	25.5	102	1	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	26.3	105	26.1	104	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	28.4	114	28.2	113	1	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	26.9	108	26.8	107	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	26.4	106	26.2	105	1	71-113/12
124-48-1	Dibromochloromethane	3.3		25	29.7	106*	29.6	105*	0	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.8	103	26.0	104	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.6	106	26.5	106	0	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.8	107	26.5	106	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.0	108	27.3	109	1	75-111/12
100-41-4	Ethylbenzene	ND		25	24.2	97	24.2	97	0	75-112/12
591-78-6	2-Hexanone	ND		125	124	99	123	98	1	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	141	113	139	111	1	63-115/21
74-83-9	Methyl bromide	ND		25	27.9	112	27.7	111	1	59-132/15
74-87-3	Methyl chloride	ND		25	31.0	124	30.3	121	2	56-150/17
75-09-2	Methylene chloride	ND		25	24.6	98	24.1	96	2	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	138	110	133	106	4	62-117/21
100-42-5	Styrene	ND		25	22.6	90	22.4	90	1	76-110/11
71-55-6	1,1,1-Trichloroethane	ND		25	27.4	110	26.9	108	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	29.0	116*	29.0	116*	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.5	102	25.5	102	0	69-107/14
127-18-4	Tetrachloroethylene	ND		25	25.0	100	24.9	100	0	77-120/13
108-88-3	Toluene	ND		25	24.4	98	24.6	98	1	77-114/12
79-01-6	Trichloroethylene	ND		25	26.5	106	26.5	106	0	74-117/12
75-01-4	Vinyl chloride	ND		25	24.6	98	23.9	96	3	64-121/19
1330-20-7	Xylene (total)	ND		75	74.3	99	74.0	99	0	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T80674
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81021-1MS	F036176.D	1	07/15/11	AK	n/a	n/a	VF4337
T81021-1MSD	F036177.D	1	07/15/11	AK	n/a	n/a	VF4337
T81021-1	F036175.D	1	07/15/11	AK	n/a	n/a	VF4337

The QC reported here applies to the following samples: **Method:** SW846 8260B

T80674-1, T80674-2

CAS No.	Surrogate Recoveries	MS	MSD	T81021-1	Limits
1868-53-7	Dibromofluoromethane	111%	109%	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	111%	109%	106%	75-121%
2037-26-5	Toluene-D8	109%	109%	109%	87-119%
460-00-4	4-Bromofluorobenzene	115%	115%	118%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T81412

Sampling Date: 07/14/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55446 14:51 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T81412

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T81412-1	07/14/11	11:00		07/15/11	AQ	Ground Water	MW60
T81412-2	07/14/11	11:35		07/15/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: United Technology Corporation **Job No** T81412

Site: XDD/UT Collierville/031091 **Report Date** 7/28/2011 1:48:31 PM

2 Samples were collected on 07/14/2011 and received at Accutest on 07/15/2011 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T81412. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE475

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T81686-8MS, T81686-8MSD were used as the QC samples indicated.
- Matrix Spike Recovery for 2-Hexanone is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery for 2-Hexanone is outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Carbon disulfide, Carbon tetrachloride, trans-1,3-Dichloropropene are outside control limits for sample T81686-8MSD.

Matrix AQ **Batch ID:** VE476

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T81412-1MS, T81412-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery for cis-1,3-Dichloropropene is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,2-Dichloropropane, Bromoform, Carbon tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Bromodichloromethane, Carbon tetrachloride are outside control limits for sample T81412-1MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T81412-1	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0009623.D	1	07/23/11	LT	n/a	n/a	VE476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T81412-1	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	97%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T81412-1	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T81412-2	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0009610.D	1	07/22/11	LT	n/a	n/a	VE475
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T81412-2	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	98%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T81412-2	**Date Sampled:**	07/14/11
Matrix:	AQ - Ground Water	**Date Received:**	07/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T81412

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: MARKVALLEN@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFRANK OCONNELL JR Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BUHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	7-14-11	1100	JFO	GW	3	3												X	
2	MW 62	7-14-11	1135	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [X] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7-14-11 / 1310	1 FEDEX	2 FEDEX	7-14-11 / 1310	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable ☐ Office ☒ Cooler Temp 1.0

T81412: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T81412 **Client:** SAS ENVIRONMENTAL **Project:** UT COLLIERVILLE

Date / Time Received: 7/15/2011 **Delivery Method:** **Airbill #'s:** 873170200665

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (1.1/1);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

7/15/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T81412: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T81412 **Date / Time Received:** 7/15/2011 10:20:00 AM **Initials:** VG

Client: SAS ENVIRONMENTAL

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T81412-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T81412-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T81412-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T81412-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T81412-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T81412-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1

T81412: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-MB	E0009591.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-MB	E0009591.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-MB	E0009591.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	100%	80-133%

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-MB	E0009622.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-MB	E0009622.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%

Method Blank Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-MB	E0009622.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-BS	E0009588.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	117	94	62-124
71-43-2	Benzene	25	21.5	86	76-118
108-86-1	Bromobenzene	25	21.0	84	72-110
74-97-5	Bromochloromethane	25	20.9	84	69-110
75-27-4	Bromodichloromethane	25	19.6	78	68-107
75-25-2	Bromoform	25	17.4	70	64-103
104-51-8	n-Butylbenzene	25	23.2	93	74-114
135-98-8	sec-Butylbenzene	25	23.3	93	76-118
98-06-6	tert-Butylbenzene	25	22.7	91	72-116
108-90-7	Chlorobenzene	25	21.3	85	74-111
75-00-3	Chloroethane	25	26.3	105	75-135
67-66-3	Chloroform	25	20.9	84	75-117
95-49-8	o-Chlorotoluene	25	22.2	89	74-113
106-43-4	p-Chlorotoluene	25	22.5	90	72-114
75-15-0	Carbon disulfide	25	22.5	90	57-126
56-23-5	Carbon tetrachloride	25	21.6	86	75-125
75-34-3	1,1-Dichloroethane	25	22.4	90	76-121
75-35-4	1,1-Dichloroethylene	25	25.5	102	71-128
563-58-6	1,1-Dichloropropene	25	23.5	94	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.2	85	55-121
106-93-4	1,2-Dibromoethane	25	20.7	83	69-106
107-06-2	1,2-Dichloroethane	25	21.9	88	70-111
78-87-5	1,2-Dichloropropane	25	21.8	87	71-113
142-28-9	1,3-Dichloropropane	25	21.5	86	69-106
594-20-7	2,2-Dichloropropane	25	21.4	86	68-130
124-48-1	Dibromochloromethane	25	19.6	78	69-104
75-71-8	Dichlorodifluoromethane	25	26.4	106	28-120
156-59-2	cis-1,2-Dichloroethylene	25	20.5	82	68-113
10061-01-5	cis-1,3-Dichloropropene	25	20.7	83	71-111
541-73-1	m-Dichlorobenzene	25	21.5	86	74-110
95-50-1	o-Dichlorobenzene	25	21.2	85	72-108
106-46-7	p-Dichlorobenzene	25	21.6	86	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.9	92	70-125
10061-02-6	trans-1,3-Dichloropropene	25	21.9	88	75-111
100-41-4	Ethylbenzene	25	21.8	87	75-112
591-78-6	2-Hexanone	125	114	91	60-113

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-BS	E0009588.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	21.8	87	72-123
98-82-8	Isopropylbenzene	25	25.9	104	75-123
99-87-6	p-Isopropyltoluene	25	23.1	92	76-116
108-10-1	4-Methyl-2-pentanone	125	111	89	63-115
74-83-9	Methyl bromide	25	24.2	97	59-132
74-87-3	Methyl chloride	25	24.6	98	56-150
74-95-3	Methylene bromide	25	20.3	81	68-114
75-09-2	Methylene chloride	25	23.0	92	70-113
78-93-3	Methyl ethyl ketone	125	115	92	62-117
1634-04-4	Methyl Tert Butyl Ether	25	20.3	81	65-113
91-20-3	Naphthalene	25	20.3	81	53-127
103-65-1	n-Propylbenzene	25	23.3	93	74-115
100-42-5	Styrene	25	21.1	84	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	20.1	80	72-108
71-55-6	1,1,1-Trichloroethane	25	21.3	85	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.5	86	67-110
79-00-5	1,1,2-Trichloroethane	25	21.0	84	69-107
87-61-6	1,2,3-Trichlorobenzene	25	20.3	81	51-128
96-18-4	1,2,3-Trichloropropane	25	20.8	83	55-116
120-82-1	1,2,4-Trichlorobenzene	25	21.0	84	63-114
95-63-6	1,2,4-Trimethylbenzene	25	21.5	86	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.3	85	74-115
127-18-4	Tetrachloroethylene	25	22.0	88	77-120
108-88-3	Toluene	25	21.7	87	77-114
79-01-6	Trichloroethylene	25	21.2	85	74-117
75-69-4	Trichlorofluoromethane	25	26.7	107	64-132
75-01-4	Vinyl chloride	25	23.2	93	64-121
1330-20-7	Xylene (total)	75	64.6	86	75-111
	m,p-Xylene	50	43.2	86	75-112
95-47-6	o-Xylene	25	21.4	86	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE475-BS	E0009588.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	106%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-BS	E0009619.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	118	94	62-124
71-43-2	Benzene	25	21.0	84	76-118
108-86-1	Bromobenzene	25	20.3	81	72-110
74-97-5	Bromochloromethane	25	20.7	83	69-110
75-27-4	Bromodichloromethane	25	19.2	77	68-107
75-25-2	Bromoform	25	17.0	68	64-103
104-51-8	n-Butylbenzene	25	21.3	85	74-114
135-98-8	sec-Butylbenzene	25	22.1	88	76-118
98-06-6	tert-Butylbenzene	25	22.1	88	72-116
108-90-7	Chlorobenzene	25	20.8	83	74-111
75-00-3	Chloroethane	25	25.1	100	75-135
67-66-3	Chloroform	25	20.6	82	75-117
95-49-8	o-Chlorotoluene	25	21.2	85	74-113
106-43-4	p-Chlorotoluene	25	21.7	87	72-114
75-15-0	Carbon disulfide	25	21.4	86	57-126
56-23-5	Carbon tetrachloride	25	20.8	83	75-125
75-34-3	1,1-Dichloroethane	25	22.0	88	76-121
75-35-4	1,1-Dichloroethylene	25	24.6	98	71-128
563-58-6	1,1-Dichloropropene	25	22.7	91	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.0	84	55-121
106-93-4	1,2-Dibromoethane	25	20.5	82	69-106
107-06-2	1,2-Dichloroethane	25	21.6	86	70-111
78-87-5	1,2-Dichloropropane	25	21.4	86	71-113
142-28-9	1,3-Dichloropropane	25	21.1	84	69-106
594-20-7	2,2-Dichloropropane	25	18.1	72	68-130
124-48-1	Dibromochloromethane	25	19.2	77	69-104
75-71-8	Dichlorodifluoromethane	25	24.5	98	28-120
156-59-2	cis-1,2-Dichloroethylene	25	19.8	79	68-113
10061-01-5	cis-1,3-Dichloropropene	25	19.3	77	71-111
541-73-1	m-Dichlorobenzene	25	20.7	83	74-110
95-50-1	o-Dichlorobenzene	25	20.7	83	72-108
106-46-7	p-Dichlorobenzene	25	20.6	82	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.2	89	70-125
10061-02-6	trans-1,3-Dichloropropene	25	20.7	83	75-111
100-41-4	Ethylbenzene	25	20.8	83	75-112
591-78-6	2-Hexanone	125	115	92	60-113

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-BS	E0009619.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	21.0	84	72-123
98-82-8	Isopropylbenzene	25	25.0	100	75-123
99-87-6	p-Isopropyltoluene	25	21.9	88	76-116
108-10-1	4-Methyl-2-pentanone	125	113	90	63-115
74-83-9	Methyl bromide	25	22.8	91	59-132
74-87-3	Methyl chloride	25	23.0	92	56-150
74-95-3	Methylene bromide	25	20.6	82	68-114
75-09-2	Methylene chloride	25	22.0	88	70-113
78-93-3	Methyl ethyl ketone	125	115	92	62-117
1634-04-4	Methyl Tert Butyl Ether	25	20.0	80	65-113
91-20-3	Naphthalene	25	20.8	83	53-127
103-65-1	n-Propylbenzene	25	21.8	87	74-115
100-42-5	Styrene	25	20.3	81	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	19.6	78	72-108
71-55-6	1,1,1-Trichloroethane	25	20.6	82	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.5	86	67-110
79-00-5	1,1,2-Trichloroethane	25	20.6	82	69-107
87-61-6	1,2,3-Trichlorobenzene	25	20.3	81	51-128
96-18-4	1,2,3-Trichloropropane	25	20.7	83	55-116
120-82-1	1,2,4-Trichlorobenzene	25	20.3	81	63-114
95-63-6	1,2,4-Trimethylbenzene	25	20.7	83	73-111
108-67-8	1,3,5-Trimethylbenzene	25	20.5	82	74-115
127-18-4	Tetrachloroethylene	25	20.6	82	77-120
108-88-3	Toluene	25	21.0	84	77-114
79-01-6	Trichloroethylene	25	20.4	82	74-117
75-69-4	Trichlorofluoromethane	25	25.7	103	64-132
75-01-4	Vinyl chloride	25	21.9	88	64-121
1330-20-7	Xylene (total)	75	62.2	83	75-111
	m,p-Xylene	50	41.5	83	75-112
95-47-6	o-Xylene	25	20.6	82	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%

Blank Spike Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE476-BS	E0009619.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	104%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81686-8MS	E0009595.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8MSD	E0009596.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8	E0009594.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	T81686-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	126	101	131	105	4	62-124/21
71-43-2	Benzene	1.0 U		25	21.3	85	20.5	82	4	76-118/16
108-86-1	Bromobenzene	1.0 U		25	21.0	84	20.6	82	2	72-110/12
74-97-5	Bromochloromethane	1.0 U		25	21.1	84	20.3	81	4	69-110/12
75-27-4	Bromodichloromethane	1.0 U		25	20.1	80	17.9	72	12	68-107/12
75-25-2	Bromoform	1.0 U		25	18.4	74	16.3	65	12	64-103/14
104-51-8	n-Butylbenzene	1.0 U		25	21.6	86	22.1	88	2	74-114/12
135-98-8	sec-Butylbenzene	1.0 U		25	22.4	90	22.6	90	1	76-118/12
98-06-6	tert-Butylbenzene	1.0 U		25	22.3	89	22.2	89	0	72-116/14
108-90-7	Chlorobenzene	1.0 U		25	21.4	86	20.4	82	5	74-111/11
75-00-3	Chloroethane	1.0 U		25	25.1	100	24.1	96	4	75-135/15
67-66-3	Chloroform	1.0 U		25	21.1	84	20.5	82	3	75-117/12
95-49-8	o-Chlorotoluene	1.0 U		25	22.1	88	21.2	85	4	74-113/12
106-43-4	p-Chlorotoluene	1.0 U		25	22.5	90	21.6	86	4	72-114/12
75-15-0	Carbon disulfide	1.0 U		25	22.4	90	17.5	70	25*	57-126/13
56-23-5	Carbon tetrachloride	1.0 U		25	22.0	88	19.3	77	13*	75-125/12
75-34-3	1,1-Dichloroethane	1.0 U		25	22.6	90	21.4	86	5	76-121/13
75-35-4	1,1-Dichloroethylene	1.0 U		25	25.4	102	25.3	101	0	71-128/19
563-58-6	1,1-Dichloropropene	1.0 U		25	23.6	94	22.3	89	6	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.0	100	23.4	94	7	55-121/33
106-93-4	1,2-Dibromoethane	1.0 U		25	21.5	86	21.2	85	1	69-106/13
107-06-2	1,2-Dichloroethane	1.0 U		25	22.4	90	22.1	88	1	70-111/14
78-87-5	1,2-Dichloropropane	1.0 U		25	21.7	87	21.1	84	3	71-113/12
142-28-9	1,3-Dichloropropane	1.0 U		25	22.1	88	21.5	86	3	69-106/12
594-20-7	2,2-Dichloropropane	1.0 U		25	20.7	83	19.6	78	5	68-130/14
124-48-1	Dibromochloromethane	1.0 U		25	20.1	80	17.8	71	12	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		25	24.9	100	23.9	96	4	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	20.4	82	19.6	78	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.5	82	18.2	73	12	71-111/12
541-73-1	m-Dichlorobenzene	1.0 U		25	21.2	85	20.7	83	2	74-110/12
95-50-1	o-Dichlorobenzene	1.0 U		25	21.1	84	20.9	84	1	72-108/12
106-46-7	p-Dichlorobenzene	1.0 U		25	21.2	85	20.9	84	1	74-110/12
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	22.9	92	21.6	86	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	22.6	90	19.9	80	13*	75-111/12
100-41-4	Ethylbenzene	1.0 U		25	21.6	86	20.7	83	4	75-112/12
591-78-6	2-Hexanone	10 U		125	143	114*	148	118*	3	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81686-8MS	E0009595.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8MSD	E0009596.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8	E0009594.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Compound	T81686-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	1.0 U		25	19.5	78	18.5	74	5	72-123/17
98-82-8	Isopropylbenzene	1.0 U		25	25.9	104	25.2	101	3	75-123/12
99-87-6	p-Isopropyltoluene	1.0 U		25	22.3	89	22.4	90	0	76-116/12
108-10-1	4-Methyl-2-pentanone	10 U		125	136	109	139	111	2	63-115/21
74-83-9	Methyl bromide	1.0 U		25	22.8	91	21.8	87	4	59-132/15
74-87-3	Methyl chloride	1.0 U		25	23.4	94	22.0	88	6	56-150/17
74-95-3	Methylene bromide	1.0 U		25	21.2	85	20.7	83	2	68-114/13
75-09-2	Methylene chloride	5.0 U		25	21.6	86	20.9	84	3	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	127	102	134	107	5	62-117/21
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	21.2	85	21.0	84	1	65-113/13
91-20-3	Naphthalene	5.0 U		25	23.0	92	25.0	100	8	53-127/34
103-65-1	n-Propylbenzene	1.0 U		25	22.7	91	22.2	89	2	74-115/12
100-42-5	Styrene	1.0 U		25	21.2	85	20.0	80	6	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	20.6	82	18.5	74	11	72-108/11
71-55-6	1,1,1-Trichloroethane	1.0 U		25	21.6	86	20.3	81	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	23.2	93	23.5	94	1	67-110/20
79-00-5	1,1,2-Trichloroethane	1.0 U		25	21.9	88	21.2	85	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	19.6	78	21.5	86	9	51-128/31
96-18-4	1,2,3-Trichloropropane	1.0 U		25	23.0	92	23.1	92	0	55-116/27
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	19.9	80	21.3	85	7	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1.0 U		25	21.1	84	20.8	83	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	1.0 U		25	21.5	86	20.7	83	4	74-115/12
127-18-4	Tetrachloroethylene	1.0 U		25	22.2	89	24.2	97	9	77-120/13
108-88-3	Toluene	1.0 U		25	21.8	87	21.0	84	4	77-114/12
79-01-6	Trichloroethylene	1.0 U		25	21.4	86	21.7	87	1	74-117/12
75-69-4	Trichlorofluoromethane	1.0 U		25	25.6	102	24.1	96	6	64-132/18
75-01-4	Vinyl chloride	1.0 U		25	21.2	85	20.3	81	4	64-121/19
1330-20-7	Xylene (total)	3.0 U		75	64.5	86	61.9	83	4	75-111/12
	m,p-Xylene	2.0 U		50	43.1	86	41.5	83	4	75-112/12
95-47-6	o-Xylene	1.0 U		25	21.4	86	20.5	82	4	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T81686-8	Limits
1868-53-7	Dibromofluoromethane	94%	93%	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	101%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81686-8MS	E0009595.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8MSD	E0009596.D	1	07/22/11	LT	n/a	n/a	VE475
T81686-8	E0009594.D	1	07/22/11	LT	n/a	n/a	VE475

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-2

CAS No.	Surrogate Recoveries	MS	MSD	T81686-8	Limits
2037-26-5	Toluene-D8	98%	96%	98%	87-119%
460-00-4	4-Bromofluorobenzene	97%	95%	98%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81412-1MS	E0009624.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1MSD	E0009625.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1	E0009623.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	T81412-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	133	106	130	104	2	62-124/21
71-43-2	Benzene	ND		25	21.7	87	20.2	81	7	76-118/16
108-86-1	Bromobenzene	ND		25	21.5	86	20.2	81	6	72-110/12
74-97-5	Bromochloromethane	ND		25	21.4	86	19.9	80	7	69-110/12
75-27-4	Bromodichloromethane	ND		25	19.5	78	17.2	69	13*	68-107/12
75-25-2	Bromoform	ND		25	16.5	66	14.9	60*	10	64-103/14
104-51-8	n-Butylbenzene	ND		25	21.8	87	21.7	87	0	74-114/12
135-98-8	sec-Butylbenzene	ND		25	22.7	91	22.2	89	2	76-118/12
98-06-6	tert-Butylbenzene	ND		25	22.8	91	21.9	88	4	72-116/14
108-90-7	Chlorobenzene	ND		25	21.8	87	20.5	82	6	74-111/11
75-00-3	Chloroethane	ND		25	22.1	88	20.1	80	9	75-135/15
67-66-3	Chloroform	ND		25	21.3	85	20.1	80	6	75-117/12
95-49-8	o-Chlorotoluene	ND		25	22.4	90	21.1	84	6	74-113/12
106-43-4	p-Chlorotoluene	ND		25	22.8	91	21.4	86	6	72-114/12
75-15-0	Carbon disulfide	ND		25	18.4	74	16.3	65	12	57-126/13
56-23-5	Carbon tetrachloride	ND		25	20.7	83	17.9	72*	15*	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	22.7	91	21.1	84	7	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.5	102	24.0	96	6	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	23.4	94	21.7	87	8	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.9	88	21.6	86	1	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	21.7	87	20.8	83	4	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	22.4	90	21.4	86	5	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	21.9	88	21.0	84	4	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	22.5	90	21.4	86	5	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	17.0	68	15.7	63*	8	68-130/14
124-48-1	Dibromochloromethane	ND		25	19.1	76	17.0	68*	12	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	20.0	80	18.5	74	8	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	20.6	82	19.4	78	6	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	17.6	70*	16.2	65*	8	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	21.4	86	20.8	83	3	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	21.5	86	20.9	84	3	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	21.6	86	20.8	83	4	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.2	93	21.4	86	8	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	19.2	77	17.6	70*	9	75-111/12
100-41-4	Ethylbenzene	ND		25	21.9	88	20.5	82	7	75-112/12
591-78-6	2-Hexanone	ND		125	123	98	125	100	2	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81412-1MS	E0009624.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1MSD	E0009625.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1	E0009623.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Compound	T81412-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	20.0	80	18.9	76	6	72-123/17
98-82-8	Isopropylbenzene	ND		25	26.3	105	24.5	98	7	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	22.7	91	22.0	88	3	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	119	95	118	94	1	63-115/21
74-83-9	Methyl bromide	ND		25	19.7	79	18.1	72	8	59-132/15
74-87-3	Methyl chloride	ND		25	20.4	82	18.9	76	8	56-150/17
74-95-3	Methylene bromide	ND		25	21.2	85	20.4	82	4	68-114/13
75-09-2	Methylene chloride	ND		25	22.1	88	20.9	84	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	124	99	125	100	1	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	20.9	84	20.2	81	3	65-113/13
91-20-3	Naphthalene	ND		25	20.2	81	22.4	90	10	53-127/34
103-65-1	n-Propylbenzene	ND		25	23.1	92	21.8	87	6	74-115/12
100-42-5	Styrene	ND		25	20.9	84	18.7	75*	11	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	20.4	82	18.2	73	11	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	21.1	84	19.8	79	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.8	91	22.6	90	1	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	21.7	87	21.1	84	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	19.6	78	21.3	85	8	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	22.2	89	22.1	88	0	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	19.6	78	21.3	85	8	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	21.6	86	20.0	80	8	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	21.4	86	19.6	78	9	74-115/12
127-18-4	Tetrachloroethylene	ND		25	23.4	94	23.3	93	0	77-120/13
108-88-3	Toluene	ND		25	22.1	88	20.8	83	6	77-114/12
79-01-6	Trichloroethylene	ND		25	21.8	87	21.0	84	4	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	21.7	87	20.0	80	8	64-132/18
75-01-4	Vinyl chloride	ND		25	18.6	74	17.0	68	9	64-121/19
1330-20-7	Xylene (total)	ND		75	65.3	87	59.9	80	9	75-111/12
	m,p-Xylene	ND		50	43.6	87	39.9	80	9	75-112/12
95-47-6	o-Xylene	ND		25	21.7	87	20.0	80	8	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T81412-1	Limits
1868-53-7	Dibromofluoromethane	95%	92%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	97%	98%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T81412
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T81412-1MS	E0009624.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1MSD	E0009625.D	1	07/23/11	LT	n/a	n/a	VE476
T81412-1	E0009623.D	1	07/23/11	LT	n/a	n/a	VE476

The QC reported here applies to the following samples: **Method:** SW846 8260B

T81412-1

CAS No.	Surrogate Recoveries	MS	MSD	T81412-1	Limits
2037-26-5	Toluene-D8	99%	95%	97%	87-119%
460-00-4	4-Bromofluorobenzene	98%	95%	97%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T84189

Sampling Date: 08/11/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **34**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55446 14:52 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T84189

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T84189-1	08/11/11	11:05		08/13/11	AQ	Ground Water	MW60
T84189-2	08/11/11	11:50		08/13/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T84189
Site:	XDD/UT Collierville/031091	**Report Date**	8/23/2011 9:49:26 AM

2 Samples were collected on 08/11/2011 and received at Accutest on 08/13/2011 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of T84189. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ3343

- All samples were analyzed within the recommended method holding time.
- Methylene chloride was detected in the method blank below the reporting limit. The method blank for this batch meets method specific criteria.
- Sample(s) T84207-3MS, T84207-3MSD were used as the QC samples indicated.
- Matrix Spike Recovery for cis-1,3-Dichloropropene is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromodichloromethane, cis-1,3-Dichloropropene, Methyl Tert Butyl Ether are outside control limits. Probable cause due to matrix interference.
- Sample T84207-3MS has a surrogate outside control limits biased low. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VZ3345

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T84448-4MS, T84448-4MSD were used as the QC samples indicated.
- Blank Spike Recovery for cis-1,3-Dichloropropene is outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery(s) for Bromodichloromethane, cis-1,3-Dichloropropene, Methyl Tert Butyl Ether are outside control limits. Probable cause due to matrix interference, except for cis-1,3-Dichloropropene, which was outside control limits in the Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Bromodichloromethane, cis-1,3-Dichloropropene, Methyl Tert Butyl Ether are outside control limits. Probable cause due to matrix interference, except for cis-1,3-Dichloropropene, which was outside control limits in the Blank Spike.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Chloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T84189-1	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z019401.D	1	08/18/11	DY	n/a	n/a	VZ3345
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T84189-1	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	91%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T84189-1	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T84189-2	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z019381.D	1	08/17/11	DY	n/a	n/a	VZ3343
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T84189-2	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	93%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T84189-2	**Date Sampled:**	08/11/11
Matrix:	AQ - Ground Water	**Date Received:**	08/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T84189

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1270 S. CLEVE-MASS RD
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: malkin@SASENVIRONMENTAL.com
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): J FRANK O'CONNELL JR Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses: VOC 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	8-11-11	1105	JFO	GW	3	3												X	
2	MW 62	8-11-11	1150	JFO	GW	3	3												X	

JFO

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
Bill to XDD-LLC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	8-11-11 / 1315	1 FEDEX	2 FX	8-11-11 / 1315	2 [signature] 8/12/11 1030
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☐ Cooler Temp.

T84189: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T84189 **Client:** XDD-UC **Project:** UT COLLIERVILLE

Date / Time Received: 8/12/2011 **Delivery Method:** FedEx **Airbill #'s:** 873170210654

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (3.9/3.8);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
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Houston, TX 77036
www.accutest.com

T84189: Chain of Custody
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Sample Receipt Log

Job #: T84189 **Date / Time Received:** 8/13/2011 10:30:00 AM **Initials:** BG

Client: XDD-UC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T84189-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8
1	T84189-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8
1	T84189-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8
1	T84189-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8
1	T84189-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8
1	T84189-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.9	-0.1	3.8

T84189: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-MB	Z019363.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-MB	Z019363.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	1.4	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-MB	Z019363.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-MB	Z019399.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-MB	Z019399.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%

Method Blank Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-MB	Z019399.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-BS	Z019361.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	112	90	62-124
71-43-2	Benzene	25	26.0	104	76-118
108-86-1	Bromobenzene	25	21.1	84	72-110
74-97-5	Bromochloromethane	25	26.0	104	69-110
75-27-4	Bromodichloromethane	25	26.1	104	68-107
75-25-2	Bromoform	25	21.2	85	64-103
104-51-8	n-Butylbenzene	25	24.1	96	74-114
135-98-8	sec-Butylbenzene	25	23.3	93	76-118
98-06-6	tert-Butylbenzene	25	22.4	90	72-116
108-90-7	Chlorobenzene	25	22.0	88	74-111
75-00-3	Chloroethane	25	23.2	93	75-135
67-66-3	Chloroform	25	25.6	102	75-117
95-49-8	o-Chlorotoluene	25	21.9	88	74-113
106-43-4	p-Chlorotoluene	25	22.6	90	72-114
75-15-0	Carbon disulfide	25	25.0	100	57-126
56-23-5	Carbon tetrachloride	25	28.8	115	75-125
75-34-3	1,1-Dichloroethane	25	26.3	105	76-121
75-35-4	1,1-Dichloroethylene	25	28.9	116	71-128
563-58-6	1,1-Dichloropropene	25	28.5	114	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.7	95	55-121
106-93-4	1,2-Dibromoethane	25	23.9	96	69-106
107-06-2	1,2-Dichloroethane	25	25.7	103	70-111
78-87-5	1,2-Dichloropropane	25	26.3	105	71-113
142-28-9	1,3-Dichloropropane	25	24.0	96	69-106
594-20-7	2,2-Dichloropropane	25	31.6	126	68-130
124-48-1	Dibromochloromethane	25	24.1	96	69-104
75-71-8	Dichlorodifluoromethane	25	23.2	93	28-120
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	68-113
10061-01-5	cis-1,3-Dichloropropene	25	27.4	110	71-111
541-73-1	m-Dichlorobenzene	25	22.5	90	74-110
95-50-1	o-Dichlorobenzene	25	23.1	92	72-108
106-46-7	p-Dichlorobenzene	25	22.5	90	74-110
156-60-5	trans-1,2-Dichloroethylene	25	27.1	108	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	75-111
100-41-4	Ethylbenzene	25	23.6	94	75-112
591-78-6	2-Hexanone	125	98.3	79	60-113

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-BS	Z019361.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	25.7	103	72-123
98-82-8	Isopropylbenzene	25	25.6	102	75-123
99-87-6	p-Isopropyltoluene	25	23.9	96	76-116
108-10-1	4-Methyl-2-pentanone	125	109	87	63-115
74-83-9	Methyl bromide	25	21.2	85	59-132
74-87-3	Methyl chloride	25	21.2	85	56-150
74-95-3	Methylene bromide	25	26.9	108	68-114
75-09-2	Methylene chloride	25	27.3	109	70-113
78-93-3	Methyl ethyl ketone	125	114	91	62-117
1634-04-4	Methyl Tert Butyl Ether	25	26.9	108	65-113
91-20-3	Naphthalene	25	22.5	90	53-127
103-65-1	n-Propylbenzene	25	22.9	92	74-115
100-42-5	Styrene	25	23.5	94	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	24.0	96	72-108
71-55-6	1,1,1-Trichloroethane	25	27.1	108	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.2	93	67-110
79-00-5	1,1,2-Trichloroethane	25	23.9	96	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.1	92	51-128
96-18-4	1,2,3-Trichloropropane	25	23.5	94	55-116
120-82-1	1,2,4-Trichlorobenzene	25	24.0	96	63-114
95-63-6	1,2,4-Trimethylbenzene	25	21.9	88	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.6	86	74-115
127-18-4	Tetrachloroethylene	25	24.0	96	77-120
108-88-3	Toluene	25	23.4	94	77-114
79-01-6	Trichloroethylene	25	27.5	110	74-117
75-69-4	Trichlorofluoromethane	25	24.0	96	64-132
75-01-4	Vinyl chloride	25	18.1	72	64-121
1330-20-7	Xylene (total)	75	68.7	92	75-111
	m,p-Xylene	50	45.9	92	75-112
95-47-6	o-Xylene	25	22.8	91	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3343-BS	Z019361.D	1	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	91%	87-119%
460-00-4	4-Bromofluorobenzene	88%	80-133%

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-BS	Z019397.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	127	102	62-124
71-43-2	Benzene	25	25.8	103	76-118
108-86-1	Bromobenzene	25	21.0	84	72-110
74-97-5	Bromochloromethane	25	26.2	105	69-110
75-27-4	Bromodichloromethane	25	26.6	106	68-107
75-25-2	Bromoform	25	22.3	89	64-103
104-51-8	n-Butylbenzene	25	23.9	96	74-114
135-98-8	sec-Butylbenzene	25	23.1	92	76-118
98-06-6	tert-Butylbenzene	25	22.1	88	72-116
108-90-7	Chlorobenzene	25	21.6	86	74-111
75-00-3	Chloroethane	25	23.9	96	75-135
67-66-3	Chloroform	25	25.2	101	75-117
95-49-8	o-Chlorotoluene	25	21.7	87	74-113
106-43-4	p-Chlorotoluene	25	22.1	88	72-114
75-15-0	Carbon disulfide	25	26.1	104	57-126
56-23-5	Carbon tetrachloride	25	28.7	115	75-125
75-34-3	1,1-Dichloroethane	25	26.6	106	76-121
75-35-4	1,1-Dichloroethylene	25	29.0	116	71-128
563-58-6	1,1-Dichloropropene	25	28.4	114	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.5	94	55-121
106-93-4	1,2-Dibromoethane	25	23.5	94	69-106
107-06-2	1,2-Dichloroethane	25	25.9	104	70-111
78-87-5	1,2-Dichloropropane	25	26.4	106	71-113
142-28-9	1,3-Dichloropropane	25	23.5	94	69-106
594-20-7	2,2-Dichloropropane	25	31.9	128	68-130
124-48-1	Dibromochloromethane	25	24.2	97	69-104
75-71-8	Dichlorodifluoromethane	25	23.0	92	28-120
156-59-2	cis-1,2-Dichloroethylene	25	25.5	102	68-113
10061-01-5	cis-1,3-Dichloropropene	25	28.0	112* [a]	71-111
541-73-1	m-Dichlorobenzene	25	22.0	88	74-110
95-50-1	o-Dichlorobenzene	25	22.4	90	72-108
106-46-7	p-Dichlorobenzene	25	21.8	87	74-110
156-60-5	trans-1,2-Dichloroethylene	25	27.1	108	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.3	105	75-111
100-41-4	Ethylbenzene	25	23.1	92	75-112
591-78-6	2-Hexanone	125	102	82	60-113

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-BS	Z019397.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.5	106	72-123
98-82-8	Isopropylbenzene	25	25.5	102	75-123
99-87-6	p-Isopropyltoluene	25	23.5	94	76-116
108-10-1	4-Methyl-2-pentanone	125	114	91	63-115
74-83-9	Methyl bromide	25	22.7	91	59-132
74-87-3	Methyl chloride	25	22.6	90	56-150
74-95-3	Methylene bromide	25	27.4	110	68-114
75-09-2	Methylene chloride	25	26.9	108	70-113
78-93-3	Methyl ethyl ketone	125	119	95	62-117
1634-04-4	Methyl Tert Butyl Ether	25	27.3	109	65-113
91-20-3	Naphthalene	25	22.9	92	53-127
103-65-1	n-Propylbenzene	25	22.6	90	74-115
100-42-5	Styrene	25	23.0	92	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	23.7	95	72-108
71-55-6	1,1,1-Trichloroethane	25	27.2	109	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	67-110
79-00-5	1,1,2-Trichloroethane	25	23.3	93	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.2	93	51-128
96-18-4	1,2,3-Trichloropropane	25	23.7	95	55-116
120-82-1	1,2,4-Trichlorobenzene	25	24.0	96	63-114
95-63-6	1,2,4-Trimethylbenzene	25	21.5	86	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.1	84	74-115
127-18-4	Tetrachloroethylene	25	22.7	91	77-120
108-88-3	Toluene	25	22.3	89	77-114
79-01-6	Trichloroethylene	25	27.0	108	74-117
75-69-4	Trichlorofluoromethane	25	24.0	96	64-132
75-01-4	Vinyl chloride	25	20.8	83	64-121
1330-20-7	Xylene (total)	75	67.8	90	75-111
	m,p-Xylene	50	45.2	90	75-112
95-47-6	o-Xylene	25	22.6	90	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	75-121%

Blank Spike Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3345-BS	Z019397.D	1	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	88%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84207-3MS	Z019373.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3MSD	Z019374.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3	Z019372.D	10	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	T84207-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1230	98	1260	101	2	62-124/21
71-43-2	Benzene	625		250	820	78	835	84	2	76-118/16
108-86-1	Bromobenzene	ND		250	217	87	213	85	2	72-110/12
74-97-5	Bromochloromethane	ND		250	263	105	267	107	2	69-110/12
75-27-4	Bromodichloromethane	ND		250	266	106	272	109*	2	68-107/12
75-25-2	Bromoform	ND		250	226	90	231	92	2	64-103/14
104-51-8	n-Butylbenzene	3.5	J	250	226	89	229	90	1	74-114/12
135-98-8	sec-Butylbenzene	ND		250	227	91	227	91	0	76-118/12
98-06-6	tert-Butylbenzene	ND		250	219	88	221	88	1	72-116/14
108-90-7	Chlorobenzene	ND		250	215	86	218	87	1	74-111/11
75-00-3	Chloroethane	ND		250	237	95	238	95	0	75-135/15
67-66-3	Chloroform	ND		250	254	102	256	102	1	75-117/12
95-49-8	o-Chlorotoluene	ND		250	219	88	223	89	2	74-113/12
106-43-4	p-Chlorotoluene	ND		250	224	90	225	90	0	72-114/12
75-15-0	Carbon disulfide	ND		250	257	103	261	104	2	57-126/13
56-23-5	Carbon tetrachloride	ND		250	281	112	276	110	2	75-125/12
75-34-3	1,1-Dichloroethane	ND		250	258	103	263	105	2	76-121/13
75-35-4	1,1-Dichloroethylene	ND		250	287	115	286	114	0	71-128/19
563-58-6	1,1-Dichloropropene	ND		250	279	112	278	111	0	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	249	100	248	99	0	55-121/33
106-93-4	1,2-Dibromoethane	ND		250	242	97	246	98	2	69-106/13
107-06-2	1,2-Dichloroethane	ND		250	260	104	267	107	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		250	263	105	265	106	1	71-113/12
142-28-9	1,3-Dichloropropane	ND		250	234	94	244	98	4	69-106/12
594-20-7	2,2-Dichloropropane	ND		250	323	129	320	128	1	68-130/14
124-48-1	Dibromochloromethane	ND		250	240	96	247	99	3	69-104/12
75-71-8	Dichlorodifluoromethane	ND		250	208	83	207	83	0	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		250	250	100	253	101	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		250	283	113*	286	114*	1	71-111/12
541-73-1	m-Dichlorobenzene	ND		250	220	88	224	90	2	74-110/12
95-50-1	o-Dichlorobenzene	ND		250	222	89	228	91	3	72-108/12
106-46-7	p-Dichlorobenzene	ND		250	216	86	221	88	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		250	265	106	265	106	0	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		250	261	104	265	106	2	75-111/12
100-41-4	Ethylbenzene	78.4		250	298	88	304	90	2	75-112/12
591-78-6	2-Hexanone	ND		1250	1080	86	1100	88	2	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84207-3MS	Z019373.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3MSD	Z019374.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3	Z019372.D	10	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Compound	T84207-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		250	237	95	252	101	6	72-123/17
98-82-8	Isopropylbenzene	14.8		250	272	103	270	102	1	75-123/12
99-87-6	p-Isopropyltoluene	ND		250	232	93	232	93	0	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		1250	1220	98	1230	98	1	63-115/21
74-83-9	Methyl bromide	ND		250	214	86	213	85	0	59-132/15
74-87-3	Methyl chloride	ND		250	208	83	213	85	2	56-150/17
74-95-3	Methylene bromide	ND		250	273	109	277	111	1	68-114/13
75-09-2	Methylene chloride	ND		250	258	103	268	107	4	70-113/13
78-93-3	Methyl ethyl ketone	ND		1250	1220	98	1240	99	2	62-117/21
1634-04-4	Methyl Tert Butyl Ether	6.1	J	250	282	110	290	114*	3	65-113/13
91-20-3	Naphthalene	91.6		250	332	96	341	100	3	53-127/34
103-65-1	n-Propylbenzene	33.8		250	259	90	260	90	0	74-115/12
100-42-5	Styrene	ND		250	229	92	234	94	2	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	235	94	242	97	3	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		250	266	106	269	108	1	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	248	99	250	100	1	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		250	238	95	244	98	2	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	229	92	242	97	6	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		250	257	103	254	102	1	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		250	234	94	242	97	3	63-114/21
95-63-6	1,2,4-Trimethylbenzene	2.8	J	250	217	86	221	87	2	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		250	214	86	214	86	0	74-115/12
127-18-4	Tetrachloroethylene	ND		250	223	89	228	91	2	77-120/13
108-88-3	Toluene	16.4		250	234	87	238	89	2	77-114/12
79-01-6	Trichloroethylene	ND		250	272	109	275	110	1	74-117/12
75-69-4	Trichlorofluoromethane	ND		250	223	89	221	88	1	64-132/18
75-01-4	Vinyl chloride	ND		250	176	70	183	73	4	64-121/19
1330-20-7	Xylene (total)	50.5		750	721	89	729	90	1	75-111/12
	m,p-Xylene	50.5		500	492	88	495	89	1	75-112/12
95-47-6	o-Xylene	ND		250	229	92	234	94	2	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T84207-3	Limits
1868-53-7	Dibromofluoromethane	94%	97%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	99%	103%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84207-3MS	Z019373.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3MSD	Z019374.D	10	08/17/11	DY	n/a	n/a	VZ3343
T84207-3	Z019372.D	10	08/17/11	DY	n/a	n/a	VZ3343

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-2

CAS No.	Surrogate Recoveries	MS	MSD	T84207-3	Limits
2037-26-5	Toluene-D8	84%* [a]	88%	94%	87-119%
460-00-4	4-Bromofluorobenzene	89%	90%	87%	80-133%

(a) Outside control limits biased low.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84448-4MS	Z019405.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4MSD	Z019406.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4	Z019404.D	5	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	T84448-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	642	103	650	104	1	62-124/21
71-43-2	Benzene	339		125	456	94	450	89	1	76-118/16
108-86-1	Bromobenzene	ND		125	106	85	106	85	0	72-110/12
74-97-5	Bromochloromethane	ND		125	135	108	133	106	1	69-110/12
75-27-4	Bromodichloromethane	ND		125	137	110*	136	109*	1	68-107/12
75-25-2	Bromoform	ND		125	116	93	114	91	2	64-103/14
104-51-8	n-Butylbenzene	4.2	J	125	122	94	120	93	2	74-114/12
135-98-8	sec-Butylbenzene	4.4	J	125	120	92	116	89	3	76-118/12
98-06-6	tert-Butylbenzene	ND		125	112	90	109	87	3	72-116/14
108-90-7	Chlorobenzene	ND		125	110	88	107	86	3	74-111/11
75-00-3	Chloroethane	1320	E	125	1330	8* [a]	1300	-16* [a]	2	75-135/15
67-66-3	Chloroform	ND		125	132	106	130	104	2	75-117/12
95-49-8	o-Chlorotoluene	ND		125	110	88	107	86	3	74-113/12
106-43-4	p-Chlorotoluene	ND		125	112	90	110	88	2	72-114/12
75-15-0	Carbon disulfide	ND		125	127	102	126	101	1	57-126/13
56-23-5	Carbon tetrachloride	ND		125	146	117	139	111	5	75-125/12
75-34-3	1,1-Dichloroethane	ND		125	138	110	140	112	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		125	143	114	140	112	2	71-128/19
563-58-6	1,1-Dichloropropene	ND		125	146	117	140	112	4	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		125	122	98	128	102	5	55-121/33
106-93-4	1,2-Dibromoethane	ND		125	123	98	122	98	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		125	135	108	132	106	2	70-111/14
78-87-5	1,2-Dichloropropane	ND		125	135	108	134	107	1	71-113/12
142-28-9	1,3-Dichloropropane	ND		125	123	98	122	98	1	69-106/12
594-20-7	2,2-Dichloropropane	ND		125	156	125	151	121	3	68-130/14
124-48-1	Dibromochloromethane	ND		125	123	98	121	97	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		125	102	82	99.2	79	3	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		125	131	105	129	103	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		125	146	117*	145	116*	1	71-111/12
541-73-1	m-Dichlorobenzene	ND		125	113	90	112	90	1	74-110/12
95-50-1	o-Dichlorobenzene	ND		125	113	90	112	90	1	72-108/12
106-46-7	p-Dichlorobenzene	ND		125	110	88	110	88	0	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		125	139	111	135	108	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		125	133	106	134	107	1	75-111/12
100-41-4	Ethylbenzene	1.3	J	125	118	93	115	91	3	75-112/12
591-78-6	2-Hexanone	ND		625	556	89	573	92	3	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84448-4MS	Z019405.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4MSD	Z019406.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4	Z019404.D	5	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Compound	T84448-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		125	128	102	129	103	1	72-123/17
98-82-8	Isopropylbenzene	17.2		125	145	102	141	99	3	75-123/12
99-87-6	p-Isopropyltoluene	ND		125	119	95	116	93	3	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		625	625	100	639	102	2	63-115/21
74-83-9	Methyl bromide	ND		125	111	89	107	86	4	59-132/15
74-87-3	Methyl chloride	ND		125	106	85	107	86	1	56-150/17
74-95-3	Methylene bromide	ND		125	140	112	141	113	1	68-114/13
75-09-2	Methylene chloride	ND		125	131	105	132	106	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		625	627	100	642	103	2	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		125	143	114*	142	114*	1	65-113/13
91-20-3	Naphthalene	ND		125	135	108	141	113	4	53-127/34
103-65-1	n-Propylbenzene	20.0		125	133	90	131	89	2	74-115/12
100-42-5	Styrene	ND		125	116	93	115	92	1	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		125	121	97	118	94	3	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		125	139	111	135	108	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	124	99	124	99	0	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		125	123	98	122	98	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		125	128	102	131	105	2	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		125	125	100	126	101	1	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		125	124	99	125	100	1	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		125	109	87	108	86	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		125	107	86	106	85	1	74-115/12
127-18-4	Tetrachloroethylene	ND		125	115	92	111	89	4	77-120/13
108-88-3	Toluene	5.7		125	120	91	118	90	2	77-114/12
79-01-6	Trichloroethylene	ND		125	142	114	137	110	4	74-117/12
75-69-4	Trichlorofluoromethane	ND		125	112	90	106	85	6	64-132/18
75-01-4	Vinyl chloride	ND		125	98.4	79	96.0	77	2	64-121/19
1330-20-7	Xylene (total)	8.0	J	375	354	92	344	90	3	75-111/12
	m,p-Xylene	8.0	J	250	237	92	230	89	3	75-112/12
95-47-6	o-Xylene	ND		125	117	94	114	91	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T84448-4	Limits
1868-53-7	Dibromofluoromethane	99%	100%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	99%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T84189
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T84448-4MS	Z019405.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4MSD	Z019406.D	5	08/18/11	DY	n/a	n/a	VZ3345
T84448-4	Z019404.D	5	08/18/11	DY	n/a	n/a	VZ3345

The QC reported here applies to the following samples: **Method:** SW846 8260B

T84189-1

CAS No.	Surrogate Recoveries	MS	MSD	T84448-4	Limits
2037-26-5	Toluene-D8	90%	89%	88%	87-119%
460-00-4	4-Bromofluorobenzene	91%	91%	84%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T86734

Sampling Date: 09/08/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55446 14:54 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T86734

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T86734-1	09/08/11	12:00		09/09/11	AQ	Effluent	WP2 EFF
T86734-2	09/08/11	12:10		09/09/11	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T86734
Site:	XDD/UT Collierville/031091	**Report Date**	9/23/2011 3:28:20 PM

2 Samples were collected on 09/08/2011 and received at Accutest on 09/09/2011 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of T86734. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX1194

- All method blanks for this batch meet method specific criteria.
- Sample(s) T87022-8MS, T87022-8MSD were used as the QC samples indicated.
- All samples were analyzed within the recommended method holding time.
- Blank Spike Recovery(s) for Carbon disulfide are outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery(s) for Carbon disulfide are outside control limits. This compound was outside control limits in the Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Carbon disulfide are outside control limits. This compound was outside control limits in the Blank Spike.
- RPD(s) for MSD for Carbon disulfide are outside control limits for sample T87022-8MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T86734-1	**Date Sampled:**	09/08/11
Matrix:	AQ - Effluent	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0076786.D	1	09/22/11	DR	n/a	n/a	VX1194
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T86734-1	**Date Sampled:**	09/08/11
Matrix:	AQ - Effluent	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	87%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T86734-2	**Date Sampled:**	09/08/11
Matrix:	AQ - Influent	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0076787.D	1	09/22/11	DR	n/a	n/a	VX1194
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	39.6	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T86734-2	**Date Sampled:**	09/08/11
Matrix:	AQ - Influent	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	91%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T86734

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1278 S. Cleve-Mass Rd
City: AKRON State: OH Zip: 44321
Project Contact: MARK V. ALLEN E-mail: mallen@SASENVIRONMENTAL.COM
Phone #: 330 666 1546 Fax #: 330 666 7443
Sampler(s) Name(s): JFRANK O'CONNELL Jr Phone #: 330 666 1546

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)

Company Name: XDD-LLC
Street Address: 22 ~~STRATH~~ MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	09-08-11	1200	JFO	GW	3	3												X	
2	WP2 INF	09-08-11	1210	JFO	GW	3	3												X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@OOLI.COM
Bill to XDD-LLC ATTN BRUCE CLIFF

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	09-08-11 / 1320	1 FEDEX	2 [signature]	09-08-11 / 1320	2 [signature] 9/9/11
3		3	4		4
5		5			

Custody Seal # ☐ intact ☐ Not intact Preserved where applicable ☐ On Ice ☐ Cooler Temp.

4.1 4

T86734: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T86734 **Client:** SAS ENVIRONMETAL **Project:** UT COLLIERVILLE

Date / Time Received: 9/9/2011 **Delivery Method:** FedEx **Airbill #'s:** 870986197221

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** -0.5;

Cooler Temps (Initial/Adjusted): #1: (2.3/1.8);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☐	☑	☐	☐
2. Trip Blank listed on COC:	☐	☐	☑		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☐	☐	☑		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700
10165 Harwin Drive
F: 713.271.4770
Houston, TX 77036
www/accutest.com

T86734: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T86734 **Date / Time Received:** 9/9/2011 9:50:00 AM **Initials:** BG

Client: SAS ENVIRONMETAL

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T86734-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8
1	T86734-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8
1	T86734-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8
1	T86734-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8
1	T86734-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8
1	T86734-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.3	-0.5	1.8

T86734: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1194-MB	X0076781.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	1.9	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

Method Blank Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1194-MB	X0076781.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	75-121%
2037-26-5	Toluene-D8	88%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Blank Spike Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1194-BS	X0076779.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	97.6	78	62-124
71-43-2	Benzene	25	23.7	95	76-118
75-27-4	Bromodichloromethane	25	22.9	92	68-107
75-25-2	Bromoform	25	23.8	95	64-103
108-90-7	Chlorobenzene	25	25.2	101	74-111
75-00-3	Chloroethane	25	20.9	84	75-135
67-66-3	Chloroform	25	23.8	95	75-117
75-15-0	Carbon disulfide	25	32.5	130* [a]	57-126
56-23-5	Carbon tetrachloride	25	25.6	102	75-125
75-34-3	1,1-Dichloroethane	25	23.2	93	76-121
75-35-4	1,1-Dichloroethylene	25	23.3	93	71-128
107-06-2	1,2-Dichloroethane	25	23.9	96	70-111
78-87-5	1,2-Dichloropropane	25	20.6	82	71-113
124-48-1	Dibromochloromethane	25	24.1	96	69-104
156-59-2	cis-1,2-Dichloroethylene	25	25.3	101	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.5	90	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.7	95	70-125
10061-02-6	trans-1,3-Dichloropropene	25	21.6	86	75-111
100-41-4	Ethylbenzene	25	24.2	97	75-112
591-78-6	2-Hexanone	125	100	80	60-113
108-10-1	4-Methyl-2-pentanone	125	92.4	74	63-115
74-83-9	Methyl bromide	25	21.0	84	59-132
74-87-3	Methyl chloride	25	17.8	71	56-150
75-09-2	Methylene chloride	25	22.7	91	70-113
78-93-3	Methyl ethyl ketone	125	98.2	79	62-117
100-42-5	Styrene	25	24.2	97	76-110
71-55-6	1,1,1-Trichloroethane	25	26.1	104	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.6	78	67-110
79-00-5	1,1,2-Trichloroethane	25	21.6	86	69-107
127-18-4	Tetrachloroethylene	25	28.5	114	77-120
108-88-3	Toluene	25	22.3	89	77-114
79-01-6	Trichloroethylene	25	24.6	98	74-117
75-01-4	Vinyl chloride	25	17.4	70	64-121
1330-20-7	Xylene (total)	75	72.5	97	75-111

Blank Spike Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1194-BS	X0076779.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%
2037-26-5	Toluene-D8	91%	87-119%
460-00-4	4-Bromofluorobenzene	88%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T87022-8MS	X0076783.D	1	09/22/11	DR	n/a	n/a	VX1194
T87022-8MSD	X0076784.D	1	09/22/11	DR	n/a	n/a	VX1194
T87022-8	X0076782.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Compound	T87022-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	105	84	94.1	75	11	62-124/21
71-43-2	Benzene	ND		25	22.4	90	21.1	84	6	76-118/16
75-27-4	Bromodichloromethane	1.7		25	24.1	90	23.0	85	5	68-107/12
75-25-2	Bromoform	ND		25	24.5	98	22.9	92	7	64-103/14
108-90-7	Chlorobenzene	ND		25	24.1	96	22.8	91	6	74-111/11
75-00-3	Chloroethane	ND		25	20.0	80	19.6	78	2	75-135/15
67-66-3	Chloroform	2.4		25	25.2	91	24.4	88	3	75-117/12
75-15-0	Carbon disulfide	ND		25	32.3	129*	38.2	153*	17*	57-126/13
56-23-5	Carbon tetrachloride	ND		25	24.2	97	23.3	93	4	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	22.0	88	21.3	85	3	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	21.8	87	20.8	83	5	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	22.8	91	21.6	86	5	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	19.0	76	18.3	73	4	71-113/12
124-48-1	Dibromochloromethane	1.5		25	25.5	96	24.3	91	5	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.8	95	23.2	93	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.7	87	20.9	84	4	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.0	88	21.1	84	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	21.7	87	21.0	84	3	75-111/12
100-41-4	Ethylbenzene	ND		25	22.9	92	21.9	88	4	75-112/12
591-78-6	2-Hexanone	ND		125	109	87	100	80	9	60-113/18
108-10-1	4-Methyl-2-pentanone	ND		125	98.8	79	90.9	73	8	63-115/21
74-83-9	Methyl bromide	ND		25	20.9	84	20.5	82	2	59-132/15
74-87-3	Methyl chloride	ND		25	17.3	69	16.3	65	6	56-150/17
75-09-2	Methylene chloride	ND		25	19.9	80	18.8	75	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	99.2	79	89.7	72	10	62-117/21
100-42-5	Styrene	ND		25	22.4	90	21.4	86	5	76-110/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.9	96	23.2	93	3	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.1	80	18.4	74	9	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	20.5	82	19.2	77	7	69-107/14
127-18-4	Tetrachloroethylene	ND		25	27.0	108	26.1	104	3	77-120/13
108-88-3	Toluene	ND		25	21.3	85	20.3	81	5	77-114/12
79-01-6	Trichloroethylene	ND		25	22.6	90	21.5	86	5	74-117/12
75-01-4	Vinyl chloride	ND		25	16.0	64	16.3	65	2	64-121/19
1330-20-7	Xylene (total)	ND		75	70.0	93	66.6	89	5	75-111/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T86734
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T87022-8MS	X0076783.D	1	09/22/11	DR	n/a	n/a	VX1194
T87022-8MSD	X0076784.D	1	09/22/11	DR	n/a	n/a	VX1194
T87022-8	X0076782.D	1	09/22/11	DR	n/a	n/a	VX1194

The QC reported here applies to the following samples: **Method:** SW846 8260B

T86734-1, T86734-2

CAS No.	Surrogate Recoveries	MS	MSD	T87022-8	Limits
1868-53-7	Dibromofluoromethane	99%	99%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	91%	91%	75-121%
2037-26-5	Toluene-D8	89%	89%	87%	87-119%
460-00-4	4-Bromofluorobenzene	91%	89%	87%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T88557

Sampling Date: 09/28/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **33**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@55446 14:58 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T88557

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T88557-1	09/28/11	14:10		09/29/11	AQ	Ground Water	MW60
T88557-2	09/28/11	14:55		09/29/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T88557
Site:	XDD/UT Collierville/031091	**Report Date**	10/26/2011 6:13:45 PM

2 Samples were collected on 09/28/2011 and received at Accutest on 09/29/2011 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of T88557. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE591

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T88372-21MS, T88372-21MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,2-Trichloroethane, Dibromochloromethane, trans-1,3-Dichloropropene are outside control limits. Outside control limits biased high. Only ND results for these compounds are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery for 1,1-Dichloroethylene is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1-Dichloropropene, Benzene, Bromoform, Carbon tetrachloride, cis-1,3-Dichloropropene, trans-1,2-Dichloroethylene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery for Trichloroethylene is outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Carbon disulfide, Carbon tetrachloride, cis-1,3-Dichloropropene are outside control limits for sample T88372-21MSD.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP15884

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T88590-2DUP, T88590-2MS, T88590-2MSD, T88590-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Lead, Zinc are outside control limits for sample MP15884-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T88557-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012447.D	1	10/10/11	LT	n/a	n/a	VE591
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T88557-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	95%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T88557-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T88557-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6180
(2) Prep QC Batch: MP15884

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T88557-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012448.D	1	10/10/11	LT	n/a	n/a	VE591
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T88557-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	95%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T88557-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T88557-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6180
(2) Prep QC Batch: MP15884

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T88557

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD UNIT 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK V. ALLEN E-mail: MARK.V.ALLEN@SASENVIRONMENTAL.COM
Phone #: 330 239 9800 Fax #: 330 239 2983
Sampler(s) Name(s): J FRANK O'CONNELL JR Phone #: 330 239 9800

Project Information

Project Name: UT Collierville
Street: 97 S. Byhalia Rd
City: Collierville State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 Full List	Total Cr / Lead / Zinc	LAB USE ONLY
1	MW60	9-28-11	1410	JFO	GW	4	3			X									X	X	
2	MW62	9-28-11	1455	JFO	GW	4	3			1									X	X	
3	DUPLICATE	9-28-11	1250	JFO	GW	3	3												X		

JFO

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)
- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions
LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-28-11 / 1640	1 FEDEX	2 FEDEX	~~9-28-11/1640~~ 9/29/11 910	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

T88557: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T88557 **Client:** XDD-LLC **Project:** UT COLLIERVILLE

Date / Time Received: 9/29/2011 **Delivery Method:** FedEx **Airbill #'s:** 875387843428

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** 0.1;

Cooler Temps (Initial/Adjusted): #1: (2.2/2.3);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T88557: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T88557 **Date / Time Received:** 9/29/2011 9:10:00 AM **Initials:** BG

Client: XDD-LLC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T88557-1	500 ml	1	M3	HNO3	pH < 2	110	2.2	0.1	2.3
1	T88557-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-2	500 ml	1	M3	HNO3	pH < 2	110	2.2	0.1	2.3
1	T88557-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-3	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-3	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88557-3	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3

T88557: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%

Method Blank Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Blank Spike Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	135	108	62-124
71-43-2	Benzene	25	22.7	91	76-118
108-86-1	Bromobenzene	25	25.6	102	72-110
74-97-5	Bromochloromethane	25	24.4	98	69-110
75-27-4	Bromodichloromethane	25	25.7	103	68-107
75-25-2	Bromoform	25	24.4	98	64-103
104-51-8	n-Butylbenzene	25	27.3	109	74-114
135-98-8	sec-Butylbenzene	25	27.8	111	76-118
98-06-6	tert-Butylbenzene	25	28.4	114	72-116
108-90-7	Chlorobenzene	25	25.9	104	74-111
75-00-3	Chloroethane	25	20.9	84	75-135
67-66-3	Chloroform	25	25.4	102	75-117
95-49-8	o-Chlorotoluene	25	27.3	109	74-113
106-43-4	p-Chlorotoluene	25	28.0	112	72-114
75-15-0	Carbon disulfide	25	27.0	108	57-126
56-23-5	Carbon tetrachloride	25	25.3	101	75-125
75-34-3	1,1-Dichloroethane	25	23.8	95	76-121
75-35-4	1,1-Dichloroethylene	25	20.2	81	71-128
563-58-6	1,1-Dichloropropene	25	23.3	93	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	28.7	115	55-121
106-93-4	1,2-Dibromoethane	25	25.9	104	69-106
107-06-2	1,2-Dichloroethane	25	26.5	106	70-111
78-87-5	1,2-Dichloropropane	25	24.8	99	71-113
142-28-9	1,3-Dichloropropane	25	26.1	104	69-106
594-20-7	2,2-Dichloropropane	25	25.2	101	68-130
124-48-1	Dibromochloromethane	25	26.6	106* [a]	69-104
75-71-8	Dichlorodifluoromethane	25	23.1	92	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.0	92	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	71-111
541-73-1	m-Dichlorobenzene	25	26.3	105	74-110
95-50-1	o-Dichlorobenzene	25	26.6	106	72-108
106-46-7	p-Dichlorobenzene	25	26.1	104	74-110
156-60-5	trans-1,2-Dichloroethylene	25	20.3	81	70-125
10061-02-6	trans-1,3-Dichloropropene	25	28.7	115* [a]	75-111
100-41-4	Ethylbenzene	25	25.9	104	75-112
591-78-6	2-Hexanone	125	132	106	60-113

Blank Spike Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.3	105	72-123
98-82-8	Isopropylbenzene	25	30.8	123	75-123
99-87-6	p-Isopropyltoluene	25	27.8	111	76-116
108-10-1	4-Methyl-2-pentanone	125	131	105	63-115
74-83-9	Methyl bromide	25	18.7	75	59-132
74-87-3	Methyl chloride	25	18.7	75	56-150
74-95-3	Methylene bromide	25	24.7	99	68-114
75-09-2	Methylene chloride	25	23.9	96	70-113
78-93-3	Methyl ethyl ketone	125	135	108	62-117
1634-04-4	Methyl Tert Butyl Ether	25	24.6	98	65-113
91-20-3	Naphthalene	25	25.4	102	53-127
103-65-1	n-Propylbenzene	25	27.3	109	74-115
100-42-5	Styrene	25	26.1	104	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	26.4	106	72-108
71-55-6	1,1,1-Trichloroethane	25	24.5	98	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	67-110
79-00-5	1,1,2-Trichloroethane	25	27.1	108* [a]	69-107
87-61-6	1,2,3-Trichlorobenzene	25	25.0	100	51-128
96-18-4	1,2,3-Trichloropropane	25	27.5	110	55-116
120-82-1	1,2,4-Trichlorobenzene	25	25.4	102	63-114
95-63-6	1,2,4-Trimethylbenzene	25	25.9	104	73-111
108-67-8	1,3,5-Trimethylbenzene	25	25.5	102	74-115
127-18-4	Tetrachloroethylene	25	25.9	104	77-120
108-88-3	Toluene	25	24.6	98	77-114
79-01-6	Trichloroethylene	25	23.8	95	74-117
75-69-4	Trichlorofluoromethane	25	23.7	95	64-132
75-01-4	Vinyl chloride	25	19.4	78	64-121
1330-20-7	Xylene (total)	75	79.3	106	75-111
	m,p-Xylene	50	52.9	106	75-112
95-47-6	o-Xylene	25	26.4	106	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%

Blank Spike Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	T88372-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	250	U	625	531	85	570	91	7	62-124/21
71-43-2	Benzene	5.0	U	125	98.2	79	90.4	72*	8	76-118/16
108-86-1	Bromobenzene	5.0	U	125	108	86	103	82	5	72-110/12
74-97-5	Bromochloromethane	5.0	U	125	105	84	99.1	79	6	69-110/12
75-27-4	Bromodichloromethane	5.0	U	125	104	83	92.5	74	12	68-107/12
75-25-2	Bromoform	5.0	U	125	80.7	65	74.4	60*	8	64-103/14
104-51-8	n-Butylbenzene	5.0	U	125	113	90	112	90	1	74-114/12
135-98-8	sec-Butylbenzene	5.0	U	125	115	92	113	90	2	76-118/12
98-06-6	tert-Butylbenzene	5.0	U	125	122	98	116	93	5	72-116/14
108-90-7	Chlorobenzene	5.0	U	125	108	86	102	82	6	74-111/11
75-00-3	Chloroethane	5.0	U	125	101	81	93.7	75	7	75-135/15
67-66-3	Chloroform	5.0	U	125	110	88	103	82	7	75-117/12
95-49-8	o-Chlorotoluene	5.0	U	125	117	94	110	88	6	74-113/12
106-43-4	p-Chlorotoluene	5.0	U	125	119	95	114	91	4	72-114/12
75-15-0	Carbon disulfide	5.0	U	125	88.4	71	77.1	62	14*	57-126/13
56-23-5	Carbon tetrachloride	5.0	U	125	103	82	90.5	72*	13*	75-125/12
75-34-3	1,1-Dichloroethane	84.4		125	186	81	172	70*	8	76-121/13
75-35-4	1,1-Dichloroethylene	70.4		125	158	70*	150	64*	5	71-128/19
563-58-6	1,1-Dichloropropene	5.0	U	125	102	82	92.9	74*	9	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	10	U	125	125	100	120	96	4	55-121/33
106-93-4	1,2-Dibromoethane	5.0	U	125	108	86	104	83	4	69-106/13
107-06-2	1,2-Dichloroethane	5.0	U	125	114	91	109	87	4	70-111/14
78-87-5	1,2-Dichloropropane	5.0	U	125	108	86	103	82	5	71-113/12
142-28-9	1,3-Dichloropropane	5.0	U	125	109	87	109	87	0	69-106/12
594-20-7	2,2-Dichloropropane	5.0	U	125	107	86	99.3	79	7	68-130/14
124-48-1	Dibromochloromethane	5.0	U	125	97.0	78	89.0	71	9	69-104/12
75-71-8	Dichlorodifluoromethane	10	U	125	122	98	111	89	9	28-120/21
156-59-2	cis-1,2-Dichloroethylene	40.7		125	141	80	135	75	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	5.0	U	125	96.7	77	84.5	68*	13*	71-111/12
541-73-1	m-Dichlorobenzene	5.0	U	125	108	86	105	84	3	74-110/12
95-50-1	o-Dichlorobenzene	5.0	U	125	109	87	109	87	0	72-108/12
106-46-7	p-Dichlorobenzene	5.0	U	125	110	88	105	84	5	74-110/12
156-60-5	trans-1,2-Dichloroethylene	10.2		125	97.1	70	90.2	64*	7	70-125/14
10061-02-6	trans-1,3-Dichloropropene	5.0	U	125	106	85	94.0	75	12	75-111/12
100-41-4	Ethylbenzene	5.0	U	125	109	87	103	82	6	75-112/12
591-78-6	2-Hexanone	50	U	625	559	89	593	95	6	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Compound	T88372-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	5.0 U		125	106	85	102	82	4	72-123/17
98-82-8	Isopropylbenzene	5.0 U		125	131	105	123	98	6	75-123/12
99-87-6	p-Isopropyltoluene	5.0 U		125	116	93	114	91	2	76-116/12
108-10-1	4-Methyl-2-pentanone	50 U		625	563	90	584	93	4	63-115/21
74-83-9	Methyl bromide	5.0 U		125	92.7	74	85.7	69	8	59-132/15
74-87-3	Methyl chloride	5.0 U		125	91.8	73	85.2	68	7	56-150/17
74-95-3	Methylene bromide	5.0 U		125	106	85	104	83	2	68-114/13
75-09-2	Methylene chloride	25 U		125	102	82	95.9	77	6	70-113/13
78-93-3	Methyl ethyl ketone	50 U		625	565	90	598	96	6	62-117/21
1634-04-4	Methyl Tert Butyl Ether	5.0 U		125	105	84	104	83	1	65-113/13
91-20-3	Naphthalene	25 U		125	100	80	115	92	14	53-127/34
103-65-1	n-Propylbenzene	5.0 U		125	115	92	109	87	5	74-115/12
100-42-5	Styrene	5.0 U		125	106	85	99.7	80	6	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		125	111	89	100	80	10	72-108/11
71-55-6	1,1,1-Trichloroethane	5.0 U		125	107	86	99.4	80	7	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		125	111	89	113	90	2	67-110/20
79-00-5	1,1,2-Trichloroethane	5.0 U		125	108	86	107	86	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	5.0 U		125	99.0	79	111	89	11	51-128/31
96-18-4	1,2,3-Trichloropropane	5.0 U		125	118	94	120	96	2	55-116/27
120-82-1	1,2,4-Trichlorobenzene	5.0 U		125	99.5	80	107	86	7	63-114/21
95-63-6	1,2,4-Trimethylbenzene	5.0 U		125	110	88	106	85	4	73-111/13
108-67-8	1,3,5-Trimethylbenzene	5.0 U		125	109	87	105	84	4	74-115/12
127-18-4	Tetrachloroethylene	139		125	257	94	242	82	6	77-120/13
108-88-3	Toluene	5.0 U		125	104	83	98.8	79	5	77-114/12
79-01-6	Trichloroethylene	467		125	569	82	536	55* [a]	6	74-117/12
75-69-4	Trichlorofluoromethane	5.0 U		125	117	94	102	82	14	64-132/18
75-01-4	Vinyl chloride	5.0 U		125	99.3	79	90.3	72	9	64-121/19
1330-20-7	Xylene (total)	15 U		375	335	89	313	83	7	75-111/12
	m,p-Xylene	10 U		250	226	90	209	84	8	75-112/12
95-47-6	o-Xylene	5.0 U		125	110	88	104	83	6	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T88372-21	Limits
1868-53-7	Dibromofluoromethane	98%	97%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	103%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88557
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88557-1, T88557-2

CAS No.	Surrogate Recoveries	MS	MSD	T88372-21	Limits
2037-26-5	Toluene-D8	96%	94%	94%	87-119%
460-00-4	4-Bromofluorobenzene	97%	96%	97%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T88557
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27	-0.28	<10
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.080	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	1.1	<20

Associated samples MP15884: T88557-1, T88557-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T88557
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			10/04/11					10/04/11	
Metal	T88590-2 Original	DUP	RPD	QC Limits	T88590-2 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	1.2	1.2	0.0	0-20	1.2	398	400	99.2	75-125
Cobalt									
Copper	anr								
Iron	anr								
Lead	6.3	7.2	13.3	0-20	6.3	374	400	91.9	75-125
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	7.9	8.0	1.3	0-20	7.9	398	400	97.5	75-125

Associated samples MP15884: T88557-1, T88557-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T88557
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	T88590-2 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	1.2	429	400	107.0	7.5	20
Cobalt						
Copper	anr					
Iron	anr					
Lead	6.3	401	400	98.7	7.0	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	7.9	428	400	105.0	7.3	20

Associated samples MP15884: T88557-1, T88557-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T88557
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	427	400	106.8	80-120
Cobalt				
Copper	anr			
Iron	anr			
Lead	391	400	97.8	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	420	400	105.0	80-120

Associated samples MP15884: T88557-1, T88557-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T88557
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	T88590-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	1.21	0.00	100.0(a)	0-10
Cobalt				
Copper	anr			
Iron	anr			
Lead	6.30	9.52	51.1 (a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	7.87	14.0	78.4 (a)	0-10

Associated samples MP15884: T88557-1, T88557-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T88558

Sampling Date: 09/28/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **50**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Accutest LabLink@55446 14:56 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T88558

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T88558-1	09/28/11	11:00		09/29/11	AQ	Ground Water	MW4
T88558-2	09/28/11	11:55		09/29/11	AQ	Ground Water	MW31R
T88558-3	09/28/11	12:45		09/29/11	AQ	Ground Water	MW10
T88558-4	09/28/11	12:45		09/29/11	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T88558
Site:	XDD/UT Collierville/031091	**Report Date**	10/26/2011 6:25:47 PM

4 Samples were collected on 09/28/2011 and received at Accutest on 09/29/2011 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of T88558. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE591

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T88372-21MS, T88372-21MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,2-Trichloroethane, Dibromochloromethane, trans-1,3-Dichloropropene are outside control limits. Outside control limits biased high. Only ND results for these compounds are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery for 1,1-Dichloroethylene is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1-Dichloropropene, Benzene, Bromoform, Carbon tetrachloride, cis-1,3-Dichloropropene, trans-1,2-Dichloroethylene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery for Trichloroethylene is outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Carbon disulfide, Carbon tetrachloride, cis-1,3-Dichloropropene are outside control limits for sample T88372-21MSD.

Matrix AQ **Batch ID:** VE593

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2-Dichloroethane, 1,3-Dichloropropane, Isopropylbenzene, Methylene chloride, n-Butylbenzene, o-Chlorotoluene, p-Chlorotoluene, tert-Butylbenzene, trans-1,3-Dichloropropene are outside control limits. Outside control limits biased high. Only ND results for these compounds are reported for all the samples associated with this Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Benzene, Bromoform, Carbon disulfide, Carbon tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike and Matrix Spike Duplicate Recovery(s) for Trichloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 1,1,1,2-Tetrachloroethane, Bromodichloromethane, Bromoform, Carbon disulfide, Carbon tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene are outside control limits for sample T88557-3MSD.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP15884

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T88590-2DUP, T88590-2MS, T88590-2MSD, T88590-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead, Zinc are outside control limits for sample MP15884-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T88558-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012450.D	1	10/10/11	LT	n/a	n/a	VE591
Run #2	E0012496.D	25	10/11/11	LT	n/a	n/a	VE593

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	3.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2020 [a]	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T88558-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	19.7	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	2060 [a]	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	2.4	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	105%	75-121%
2037-26-5	Toluene-D8	95%	95%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T88558-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	99%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T88558-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	4.4	3.0	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	1330	20	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6180
(2) Prep QC Batch: MP15884

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T88558-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012497.D	1	10/11/11	LT	n/a	n/a	VE593
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T88558-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	1.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	92%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T88558-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T88558-2	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.7	3.0	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	105	20	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6180
(2) Prep QC Batch: MP15884

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T88558-3	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012454.D	25	10/10/11	LT	n/a	n/a	VE591
Run #2	E0012453.D	250	10/10/11	LT	n/a	n/a	VE591

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1300	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
104-51-8	n-Butylbenzene	ND	25	ug/l	
135-98-8	sec-Butylbenzene	ND	25	ug/l	
98-06-6	tert-Butylbenzene	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	25	ug/l	
106-43-4	p-Chlorotoluene	ND	25	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	80.5	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
541-73-1	m-Dichlorobenzene	ND	25	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	ug/l	
106-46-7	p-Dichlorobenzene	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T88558-3	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	ug/l	
74-83-9	Methyl bromide	ND	25	ug/l	
74-87-3	Methyl chloride	ND	25	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	ND	130	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	25	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	ug/l	
127-18-4	Tetrachloroethylene	ND	25	ug/l	
108-88-3	Toluene	ND	25	ug/l	
79-01-6	Trichloroethylene	20100 [a]	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	25	ug/l	
75-01-4	Vinyl chloride	ND	25	ug/l	
1330-20-7	Xylene (total)	ND	75	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	75-121%
2037-26-5	Toluene-D8	95%	95%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T88558-3	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T88558-3	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	3.6	3.0	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	10/04/11	10/05/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6180
(2) Prep QC Batch: MP15884

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T88558-4	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012509.D	10	10/11/11	LT	n/a	n/a	VE593
Run #2	E0012492.D	100	10/11/11	LT	n/a	n/a	VE593

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	500	ug/l	
71-43-2	Benzene	ND	10	ug/l	
108-86-1	Bromobenzene	ND	10	ug/l	
74-97-5	Bromochloromethane	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	10	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	81.0	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T88558-4	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	100	ug/l	
74-83-9	Methyl bromide	ND	10	ug/l	
74-87-3	Methyl chloride	ND	10	ug/l	
74-95-3	Methylene bromide	ND	10	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
91-20-3	Naphthalene	ND	50	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
79-01-6	Trichloroethylene	14100 [a]	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	10	ug/l	
1330-20-7	Xylene (total)	ND	30	ug/l	
	m,p-Xylene	ND	20	ug/l	
95-47-6	o-Xylene	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	104%	75-121%
2037-26-5	Toluene-D8	95%	96%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T88558-4	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T88558

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD SUITE 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK V. ALLEN E-mail: MALLEN@SASENVIRONMENTAL.COM
Phone #: 330 239 9800 Fax #: 330 239 2983
Sampler(s) Name(s): JFRANK O'CONNELL JR Phone #: 330 239-9800

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)
Company Name: XDP-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 FULL LIST	LEAD/ZINC	LAB USE ONLY
1	MW 4	9-28-11	1100	JFO	GW	4	3			1									X	X	
2	MW 31R	9-28-11	1155	JFO	GW	4	3			1									X	X	
3	MW 10	9-28-11	1245	JFO	GW	4	3			1									X	X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@ROLI.COM
Bill to XDP-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-28-11/1640	1 FEDEX	2 FEDEX	9/29/11 ~~9-28-11/1640~~	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☐ Cooler Temp.

4.1 4

T88558: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T88558 **Client:** XDD-LLC **Project:** UT COLLIERVILLE

Date / Time Received: 9/29/2011 **Delivery Method:** FedEx **Airbill #'s:** 875387843428

No. Coolers: 1 **Therm ID:** 110; **Temp Adjustment Factor:** 0.1;

Cooler Temps (Initial/Adjusted): #1: (2.2/2.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	or N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T88558: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T88558 **Date / Time Received:** 9/29/2011 9:10:00 AM **Initials:** BG

Client: XDD-LLC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T88558-1	500 ml	1	M3	HNO3	pH < 2	110	2.2	0.1	2.3
1	T88558-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-2	500 ml	1	M3	HNO3	pH < 2	110	2.2	0.1	2.3
1	T88558-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-3	500 ml	1	M3	HNO3	pH < 2	110	2.2	0.1	2.3
1	T88558-3	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-3	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3
1	T88558-3	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	2.2	0.1	2.3

T88558: Chain of Custody
Page 3 of 3

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-MB	E0012430.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-MB	E0012489.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-MB	E0012489.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%

Method Blank Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-MB	E0012489.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	135	108	62-124
71-43-2	Benzene	25	22.7	91	76-118
108-86-1	Bromobenzene	25	25.6	102	72-110
74-97-5	Bromochloromethane	25	24.4	98	69-110
75-27-4	Bromodichloromethane	25	25.7	103	68-107
75-25-2	Bromoform	25	24.4	98	64-103
104-51-8	n-Butylbenzene	25	27.3	109	74-114
135-98-8	sec-Butylbenzene	25	27.8	111	76-118
98-06-6	tert-Butylbenzene	25	28.4	114	72-116
108-90-7	Chlorobenzene	25	25.9	104	74-111
75-00-3	Chloroethane	25	20.9	84	75-135
67-66-3	Chloroform	25	25.4	102	75-117
95-49-8	o-Chlorotoluene	25	27.3	109	74-113
106-43-4	p-Chlorotoluene	25	28.0	112	72-114
75-15-0	Carbon disulfide	25	27.0	108	57-126
56-23-5	Carbon tetrachloride	25	25.3	101	75-125
75-34-3	1,1-Dichloroethane	25	23.8	95	76-121
75-35-4	1,1-Dichloroethylene	25	20.2	81	71-128
563-58-6	1,1-Dichloropropene	25	23.3	93	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	28.7	115	55-121
106-93-4	1,2-Dibromoethane	25	25.9	104	69-106
107-06-2	1,2-Dichloroethane	25	26.5	106	70-111
78-87-5	1,2-Dichloropropane	25	24.8	99	71-113
142-28-9	1,3-Dichloropropane	25	26.1	104	69-106
594-20-7	2,2-Dichloropropane	25	25.2	101	68-130
124-48-1	Dibromochloromethane	25	26.6	106* [a]	69-104
75-71-8	Dichlorodifluoromethane	25	23.1	92	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.0	92	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	71-111
541-73-1	m-Dichlorobenzene	25	26.3	105	74-110
95-50-1	o-Dichlorobenzene	25	26.6	106	72-108
106-46-7	p-Dichlorobenzene	25	26.1	104	74-110
156-60-5	trans-1,2-Dichloroethylene	25	20.3	81	70-125
10061-02-6	trans-1,3-Dichloropropene	25	28.7	115* [a]	75-111
100-41-4	Ethylbenzene	25	25.9	104	75-112
591-78-6	2-Hexanone	125	132	106	60-113

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.3	105	72-123
98-82-8	Isopropylbenzene	25	30.8	123	75-123
99-87-6	p-Isopropyltoluene	25	27.8	111	76-116
108-10-1	4-Methyl-2-pentanone	125	131	105	63-115
74-83-9	Methyl bromide	25	18.7	75	59-132
74-87-3	Methyl chloride	25	18.7	75	56-150
74-95-3	Methylene bromide	25	24.7	99	68-114
75-09-2	Methylene chloride	25	23.9	96	70-113
78-93-3	Methyl ethyl ketone	125	135	108	62-117
1634-04-4	Methyl Tert Butyl Ether	25	24.6	98	65-113
91-20-3	Naphthalene	25	25.4	102	53-127
103-65-1	n-Propylbenzene	25	27.3	109	74-115
100-42-5	Styrene	25	26.1	104	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	26.4	106	72-108
71-55-6	1,1,1-Trichloroethane	25	24.5	98	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	67-110
79-00-5	1,1,2-Trichloroethane	25	27.1	108* [a]	69-107
87-61-6	1,2,3-Trichlorobenzene	25	25.0	100	51-128
96-18-4	1,2,3-Trichloropropane	25	27.5	110	55-116
120-82-1	1,2,4-Trichlorobenzene	25	25.4	102	63-114
95-63-6	1,2,4-Trimethylbenzene	25	25.9	104	73-111
108-67-8	1,3,5-Trimethylbenzene	25	25.5	102	74-115
127-18-4	Tetrachloroethylene	25	25.9	104	77-120
108-88-3	Toluene	25	24.6	98	77-114
79-01-6	Trichloroethylene	25	23.8	95	74-117
75-69-4	Trichlorofluoromethane	25	23.7	95	64-132
75-01-4	Vinyl chloride	25	19.4	78	64-121
1330-20-7	Xylene (total)	75	79.3	106	75-111
	m,p-Xylene	50	52.9	106	75-112
95-47-6	o-Xylene	25	26.4	106	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE591-BS	E0012428.D	1	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-BS	E0012490.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	130	104	62-124
71-43-2	Benzene	25	26.4	106	76-118
108-86-1	Bromobenzene	25	26.6	106	72-110
74-97-5	Bromochloromethane	25	24.3	97	69-110
75-27-4	Bromodichloromethane	25	25.6	102	68-107
75-25-2	Bromoform	25	21.4	86	64-103
104-51-8	n-Butylbenzene	25	28.9	116* [a]	74-114
135-98-8	sec-Butylbenzene	25	28.8	115	76-118
98-06-6	tert-Butylbenzene	25	29.8	119* [a]	72-116
108-90-7	Chlorobenzene	25	26.1	104	74-111
75-00-3	Chloroethane	25	19.0	76	75-135
67-66-3	Chloroform	25	26.8	107	75-117
95-49-8	o-Chlorotoluene	25	28.6	114* [a]	74-113
106-43-4	p-Chlorotoluene	25	29.1	116* [a]	72-114
75-15-0	Carbon disulfide	25	27.3	109	57-126
56-23-5	Carbon tetrachloride	25	28.6	114	75-125
75-34-3	1,1-Dichloroethane	25	27.7	111	76-121
75-35-4	1,1-Dichloroethylene	25	30.7	123	71-128
563-58-6	1,1-Dichloropropene	25	29.2	117	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	28.3	113	55-121
106-93-4	1,2-Dibromoethane	25	25.9	104	69-106
107-06-2	1,2-Dichloroethane	25	28.8	115* [a]	70-111
78-87-5	1,2-Dichloropropane	25	27.2	109	71-113
142-28-9	1,3-Dichloropropane	25	26.7	107* [a]	69-106
594-20-7	2,2-Dichloropropane	25	29.4	118	68-130
124-48-1	Dibromochloromethane	25	24.5	98	69-104
75-71-8	Dichlorodifluoromethane	25	21.4	86	28-120
156-59-2	cis-1,2-Dichloroethylene	25	25.8	103	68-113
10061-01-5	cis-1,3-Dichloropropene	25	25.8	103	71-111
541-73-1	m-Dichlorobenzene	25	26.4	106	74-110
95-50-1	o-Dichlorobenzene	25	26.8	107	72-108
106-46-7	p-Dichlorobenzene	25	26.8	107	74-110
156-60-5	trans-1,2-Dichloroethylene	25	27.7	111	70-125
10061-02-6	trans-1,3-Dichloropropene	25	28.0	112* [a]	75-111
100-41-4	Ethylbenzene	25	26.7	107	75-112
591-78-6	2-Hexanone	125	129	103	60-113

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-BS	E0012490.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.8	107	72-123
98-82-8	Isopropylbenzene	25	32.4	130* [a]	75-123
99-87-6	p-Isopropyltoluene	25	28.9	116	76-116
108-10-1	4-Methyl-2-pentanone	125	127	102	63-115
74-83-9	Methyl bromide	25	17.2	69	59-132
74-87-3	Methyl chloride	25	16.6	66	56-150
74-95-3	Methylene bromide	25	26.7	107	68-114
75-09-2	Methylene chloride	25	28.5	114* [a]	70-113
78-93-3	Methyl ethyl ketone	125	128	102	62-117
1634-04-4	Methyl Tert Butyl Ether	25	24.1	96	65-113
91-20-3	Naphthalene	25	24.1	96	53-127
103-65-1	n-Propylbenzene	25	28.7	115	74-115
100-42-5	Styrene	25	26.1	104	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	25.8	103	72-108
71-55-6	1,1,1-Trichloroethane	25	27.9	112	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	26.1	104	67-110
79-00-5	1,1,2-Trichloroethane	25	26.4	106	69-107
87-61-6	1,2,3-Trichlorobenzene	25	24.8	99	51-128
96-18-4	1,2,3-Trichloropropane	25	26.8	107	55-116
120-82-1	1,2,4-Trichlorobenzene	25	25.3	101	63-114
95-63-6	1,2,4-Trimethylbenzene	25	27.0	108	73-111
108-67-8	1,3,5-Trimethylbenzene	25	27.0	108	74-115
127-18-4	Tetrachloroethylene	25	27.0	108	77-120
108-88-3	Toluene	25	26.6	106	77-114
79-01-6	Trichloroethylene	25	26.6	106	74-117
75-69-4	Trichlorofluoromethane	25	21.9	88	64-132
75-01-4	Vinyl chloride	25	17.8	71	64-121
1330-20-7	Xylene (total)	75	82.2	110	75-111
	m,p-Xylene	50	55.2	110	75-112
95-47-6	o-Xylene	25	27.0	108	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%

Blank Spike Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE593-BS	E0012490.D	1	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	T88372-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	250	U	625	531	85	570	91	7	62-124/21
71-43-2	Benzene	5.0	U	125	98.2	79	90.4	72*	8	76-118/16
108-86-1	Bromobenzene	5.0	U	125	108	86	103	82	5	72-110/12
74-97-5	Bromochloromethane	5.0	U	125	105	84	99.1	79	6	69-110/12
75-27-4	Bromodichloromethane	5.0	U	125	104	83	92.5	74	12	68-107/12
75-25-2	Bromoform	5.0	U	125	80.7	65	74.4	60*	8	64-103/14
104-51-8	n-Butylbenzene	5.0	U	125	113	90	112	90	1	74-114/12
135-98-8	sec-Butylbenzene	5.0	U	125	115	92	113	90	2	76-118/12
98-06-6	tert-Butylbenzene	5.0	U	125	122	98	116	93	5	72-116/14
108-90-7	Chlorobenzene	5.0	U	125	108	86	102	82	6	74-111/11
75-00-3	Chloroethane	5.0	U	125	101	81	93.7	75	7	75-135/15
67-66-3	Chloroform	5.0	U	125	110	88	103	82	7	75-117/12
95-49-8	o-Chlorotoluene	5.0	U	125	117	94	110	88	6	74-113/12
106-43-4	p-Chlorotoluene	5.0	U	125	119	95	114	91	4	72-114/12
75-15-0	Carbon disulfide	5.0	U	125	88.4	71	77.1	62	14*	57-126/13
56-23-5	Carbon tetrachloride	5.0	U	125	103	82	90.5	72*	13*	75-125/12
75-34-3	1,1-Dichloroethane	84.4		125	186	81	172	70*	8	76-121/13
75-35-4	1,1-Dichloroethylene	70.4		125	158	70*	150	64*	5	71-128/19
563-58-6	1,1-Dichloropropene	5.0	U	125	102	82	92.9	74*	9	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	10	U	125	125	100	120	96	4	55-121/33
106-93-4	1,2-Dibromoethane	5.0	U	125	108	86	104	83	4	69-106/13
107-06-2	1,2-Dichloroethane	5.0	U	125	114	91	109	87	4	70-111/14
78-87-5	1,2-Dichloropropane	5.0	U	125	108	86	103	82	5	71-113/12
142-28-9	1,3-Dichloropropane	5.0	U	125	109	87	109	87	0	69-106/12
594-20-7	2,2-Dichloropropane	5.0	U	125	107	86	99.3	79	7	68-130/14
124-48-1	Dibromochloromethane	5.0	U	125	97.0	78	89.0	71	9	69-104/12
75-71-8	Dichlorodifluoromethane	10	U	125	122	98	111	89	9	28-120/21
156-59-2	cis-1,2-Dichloroethylene	40.7		125	141	80	135	75	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	5.0	U	125	96.7	77	84.5	68*	13*	71-111/12
541-73-1	m-Dichlorobenzene	5.0	U	125	108	86	105	84	3	74-110/12
95-50-1	o-Dichlorobenzene	5.0	U	125	109	87	109	87	0	72-108/12
106-46-7	p-Dichlorobenzene	5.0	U	125	110	88	105	84	5	74-110/12
156-60-5	trans-1,2-Dichloroethylene	10.2		125	97.1	70	90.2	64*	7	70-125/14
10061-02-6	trans-1,3-Dichloropropene	5.0	U	125	106	85	94.0	75	12	75-111/12
100-41-4	Ethylbenzene	5.0	U	125	109	87	103	82	6	75-112/12
591-78-6	2-Hexanone	50	U	625	559	89	593	95	6	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Compound	T88372-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	5.0 U		125	106	85	102	82	4	72-123/17
98-82-8	Isopropylbenzene	5.0 U		125	131	105	123	98	6	75-123/12
99-87-6	p-Isopropyltoluene	5.0 U		125	116	93	114	91	2	76-116/12
108-10-1	4-Methyl-2-pentanone	50 U		625	563	90	584	93	4	63-115/21
74-83-9	Methyl bromide	5.0 U		125	92.7	74	85.7	69	8	59-132/15
74-87-3	Methyl chloride	5.0 U		125	91.8	73	85.2	68	7	56-150/17
74-95-3	Methylene bromide	5.0 U		125	106	85	104	83	2	68-114/13
75-09-2	Methylene chloride	25 U		125	102	82	95.9	77	6	70-113/13
78-93-3	Methyl ethyl ketone	50 U		625	565	90	598	96	6	62-117/21
1634-04-4	Methyl Tert Butyl Ether	5.0 U		125	105	84	104	83	1	65-113/13
91-20-3	Naphthalene	25 U		125	100	80	115	92	14	53-127/34
103-65-1	n-Propylbenzene	5.0 U		125	115	92	109	87	5	74-115/12
100-42-5	Styrene	5.0 U		125	106	85	99.7	80	6	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		125	111	89	100	80	10	72-108/11
71-55-6	1,1,1-Trichloroethane	5.0 U		125	107	86	99.4	80	7	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		125	111	89	113	90	2	67-110/20
79-00-5	1,1,2-Trichloroethane	5.0 U		125	108	86	107	86	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	5.0 U		125	99.0	79	111	89	11	51-128/31
96-18-4	1,2,3-Trichloropropane	5.0 U		125	118	94	120	96	2	55-116/27
120-82-1	1,2,4-Trichlorobenzene	5.0 U		125	99.5	80	107	86	7	63-114/21
95-63-6	1,2,4-Trimethylbenzene	5.0 U		125	110	88	106	85	4	73-111/13
108-67-8	1,3,5-Trimethylbenzene	5.0 U		125	109	87	105	84	4	74-115/12
127-18-4	Tetrachloroethylene	139		125	257	94	242	82	6	77-120/13
108-88-3	Toluene	5.0 U		125	104	83	98.8	79	5	77-114/12
79-01-6	Trichloroethylene	467		125	569	82	536	55* [a]	6	74-117/12
75-69-4	Trichlorofluoromethane	5.0 U		125	117	94	102	82	14	64-132/18
75-01-4	Vinyl chloride	5.0 U		125	99.3	79	90.3	72	9	64-121/19
1330-20-7	Xylene (total)	15 U		375	335	89	313	83	7	75-111/12
	m,p-Xylene	10 U		250	226	90	209	84	8	75-112/12
95-47-6	o-Xylene	5.0 U		125	110	88	104	83	6	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T88372-21	Limits
1868-53-7	Dibromofluoromethane	98%	97%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	103%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88372-21MS	E0012440.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21MSD	E0012441.D	5	10/10/11	LT	n/a	n/a	VE591
T88372-21	E0012439.D	5	10/10/11	LT	n/a	n/a	VE591

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-3

CAS No.	Surrogate Recoveries	MS	MSD	T88372-21	Limits
2037-26-5	Toluene-D8	96%	94%	94%	87-119%
460-00-4	4-Bromofluorobenzene	97%	96%	97%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88557-3MS	E0012493.D	100	10/11/11	LT	n/a	n/a	VE593
T88557-3MSD	E0012494.D	100	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone			12500	10500	84	11000	88	5	62-124/21
71-43-2	Benzene			2500	1980	79	1870	75*	6	76-118/16
108-86-1	Bromobenzene			2500	2330	93	2190	88	6	72-110/12
74-97-5	Bromochloromethane			2500	2110	84	2050	82	3	69-110/12
75-27-4	Bromodichloromethane			2500	2070	83	1730	69	18*	68-107/12
75-25-2	Bromoform			2500	1640	66	1390	56*	17*	64-103/14
104-51-8	n-Butylbenzene			2500	2450	98	2340	94	5	74-114/12
135-98-8	sec-Butylbenzene			2500	2460	98	2350	94	5	76-118/12
98-06-6	tert-Butylbenzene			2500	2560	102	2400	96	6	72-116/14
108-90-7	Chlorobenzene			2500	2230	89	2140	86	4	74-111/11
75-00-3	Chloroethane			2500	2180	87	2110	84	3	75-135/15
67-66-3	Chloroform			2500	2210	88	2120	85	4	75-117/12
95-49-8	o-Chlorotoluene			2500	2440	98	2330	93	5	74-113/12
106-43-4	p-Chlorotoluene			2500	2540	102	2390	96	6	72-114/12
75-15-0	Carbon disulfide			2500	1710	68	1410	56*	19*	57-126/13
56-23-5	Carbon tetrachloride			2500	2020	81	1680	67*	18*	75-125/12
75-34-3	1,1-Dichloroethane			2500	2090	84	1980	79	5	76-121/13
75-35-4	1,1-Dichloroethylene			2500	1830	73	1870	75	2	71-128/19
563-58-6	1,1-Dichloropropene			2500	2060	82	1930	77	7	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane			2500	2370	95	2370	95	0	55-121/33
106-93-4	1,2-Dibromoethane			2500	2270	91	2230	89	2	69-106/13
107-06-2	1,2-Dichloroethane			2500	2370	95	2300	92	3	70-111/14
78-87-5	1,2-Dichloropropane			2500	2270	91	2150	86	5	71-113/12
142-28-9	1,3-Dichloropropane			2500	2330	93	2270	91	3	69-106/12
594-20-7	2,2-Dichloropropane			2500	2170	87	2010	80	8	68-130/14
124-48-1	Dibromochloromethane			2500	1960	78	1660	66*	17*	69-104/12
75-71-8	Dichlorodifluoromethane			2500	2340	94	2160	86	8	28-120/21
156-59-2	cis-1,2-Dichloroethylene			2500	2040	78	1990	76	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene			2500	1990	80	1650	66*	19*	71-111/12
541-73-1	m-Dichlorobenzene			2500	2330	93	2200	88	6	74-110/12
95-50-1	o-Dichlorobenzene			2500	2370	95	2290	92	3	72-108/12
106-46-7	p-Dichlorobenzene			2500	2320	93	2240	90	4	74-110/12
156-60-5	trans-1,2-Dichloroethylene			2500	1770	71	1660	66*	6	70-125/14
10061-02-6	trans-1,3-Dichloropropene			2500	2200	88	1850	74*	17*	75-111/12
100-41-4	Ethylbenzene			2500	2250	90	2140	86	5	75-112/12
591-78-6	2-Hexanone			12500	11700	94	12700	102	8	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88557-3MS	E0012493.D	100	10/11/11	LT	n/a	n/a	VE593
T88557-3MSD	E0012494.D	100	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Compound	ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene			2500	2290	92	2120	85	8	72-123/17
98-82-8	Isopropylbenzene			2500	2750	110	2590	104	6	75-123/12
99-87-6	p-Isopropyltoluene			2500	2470	99	2400	96	3	76-116/12
108-10-1	4-Methyl-2-pentanone			12500	11800	94	12400	99	5	63-115/21
74-83-9	Methyl bromide			2500	1980	79	1890	76	5	59-132/15
74-87-3	Methyl chloride			2500	1910	76	1880	75	2	56-150/17
74-95-3	Methylene bromide			2500	2180	87	2130	85	2	68-114/13
75-09-2	Methylene chloride			2500	2030	81	1910	76	6	70-113/13
78-93-3	Methyl ethyl ketone			12500	11600	93	12400	99	7	62-117/21
1634-04-4	Methyl Tert Butyl Ether			2500	2150	86	2150	86	0	65-113/13
91-20-3	Naphthalene			2500	2190	88	2390	96	9	53-127/34
103-65-1	n-Propylbenzene			2500	2450	98	2330	93	5	74-115/12
100-42-5	Styrene			2500	2230	89	2140	86	4	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane			2500	2220	89	1970	79	12*	72-108/11
71-55-6	1,1,1-Trichloroethane			2500	2140	86	1980	79	8	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane			2500	2350	94	2430	97	3	67-110/20
79-00-5	1,1,2-Trichloroethane			2500	2280	91	2210	88	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene			2500	2170	87	2280	91	5	51-128/31
96-18-4	1,2,3-Trichloropropane			2500	2570	103	2440	98	5	55-116/27
120-82-1	1,2,4-Trichlorobenzene			2500	2190	88	2230	89	2	63-114/21
95-63-6	1,2,4-Trimethylbenzene			2500	2320	93	2230	89	4	73-111/13
108-67-8	1,3,5-Trimethylbenzene			2500	2280	91	2190	88	4	74-115/12
127-18-4	Tetrachloroethylene			2500	2420	97	2400	96	1	77-120/13
108-88-3	Toluene			2500	2150	86	2080	83	3	77-114/12
79-01-6	Trichloroethylene			2500	15300	48* [a]	14500	16* [a]	5	74-117/12
75-69-4	Trichlorofluoromethane			2500	2450	98	2340	94	5	64-132/18
75-01-4	Vinyl chloride			2500	2130	85	1960	78	8	64-121/19
1330-20-7	Xylene (total)			7500	6830	91	6580	88	4	75-111/12
	m,p-Xylene			5000	4570	91	4390	88	4	75-112/12
95-47-6	o-Xylene			2500	2260	90	2190	88	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	Limits
1868-53-7	Dibromofluoromethane	98%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T88558
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T88557-3MS	E0012493.D	100	10/11/11	LT	n/a	n/a	VE593
T88557-3MSD	E0012494.D	100	10/11/11	LT	n/a	n/a	VE593

The QC reported here applies to the following samples: **Method:** SW846 8260B

T88558-1, T88558-2, T88558-4

CAS No.	Surrogate Recoveries	MS	MSD	Limits
2037-26-5	Toluene-D8	97%	95%	87-119%
460-00-4	4-Bromofluorobenzene	101%	99%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T88558
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	0.080	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	1.1	<20

Associated samples MP15884: T88558-1, T88558-2, T88558-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T88558
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			10/04/11					10/04/11	
Metal	T88590-2 Original	DUP	RPD	QC Limits	T88590-2 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	6.3	7.2	13.3	0-20	6.3	374	400	91.9	75-125
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	7.9	8.0	1.3	0-20	7.9	398	400	97.5	75-125

Associated samples MP15884: T88558-1, T88558-2, T88558-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T88558
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/04/11

Metal	T88590-2 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	6.3	401	400	98.7	7.0	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	7.9	428	400	105.0	7.3	20

Associated samples MP15884: T88558-1, T88558-2, T88558-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T88558
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	391	400	97.8	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	420	400	105.0	80-120

Associated samples MP15884: T88558-1, T88558-2, T88558-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T88558
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP15884
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/04/11

Metal	T88590-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	6.30	9.52	51.1 (a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	7.87	14.0	78.4 (a)	0-10

Associated samples MP15884: T88558-1, T88558-2, T88558-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

11/16/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T89247

Sampling Date: 10/05/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-11-5) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@53603 20:03 16-Nov-2011

Sample Summary

United Technology Corporation

Job No: T89247

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T89247-1	10/05/11	12:55		10/06/11	AQ	Effluent	WP2 EFF
T89247-2	10/05/11	13:00		10/06/11	AQ	Influent	WP2 INF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T89247
Site:	XDD/UT Collierville/031091	**Report Date**	10/21/2011 11:14:49 A

2 Samples were collected on 10/05/2011 and received at Accutest on 10/06/2011 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T89247. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VE599

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T89676-1MS, T89676-1MSD were used as the QC samples indicated.
- Blank Spike Recovery for 1,2-Dichloroethane is outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery for Bromoform is outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2-Dibromo-3-chloropropane, 1,2-Dichloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Chloroethane, Methyl ethyl ketone, Styrene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Methyl ethyl ketone are outside control limits for sample T89676-1MSD.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T89247-1	**Date Sampled:**	10/05/11
Matrix:	AQ - Effluent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012646.D	1	10/14/11	LT	n/a	n/a	VE599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T89247-1	**Date Sampled:**	10/05/11
Matrix:	AQ - Effluent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	95%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 EFF		
Lab Sample ID:	T89247-1	**Date Sampled:**	10/05/11
Matrix:	AQ - Effluent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T89247-2	**Date Sampled:**	10/05/11
Matrix:	AQ - Influent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0012647.D	1	10/14/11	LT	n/a	n/a	VE599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T89247-2	**Date Sampled:**	10/05/11
Matrix:	AQ - Influent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	39.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	96%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP2 INF		
Lab Sample ID:	T89247-2	**Date Sampled:**	10/05/11
Matrix:	AQ - Influent	**Date Received:**	10/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T89247

Client / Reporting Information

Company Name	SASENVIRONMENTAL INC
Street Address	1486 MEDINA ROAD SUITE 201
City / State / Zip	MEDINA OH 44256
Project Contact / E-mail	MARK V. ALLEN mcallen@SASENVIRONMENTAL.com
Phone # / Fax #	330 239 9800 / 330239 2983
Sampler(s) Name(s) / Phone #	J FRANK O'CONNELL JR

Project Information

Project Name:	UT COLLIERVILLE
Street	97 S. BYHALIA RD
City / State	COLLIERVILLE TN
Project #	031091
Client Purchase Order #	
Project Manager	MARK V. ALLEN

Billing Information (if different from Report to)

Company Name	XDD-LLC
Street Address	22 MARIN WAY UNIT 3
City / State / Zip	STRATHAM NH
Attention:	BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	WP2 EFF	10-5-11	1255	JFO	GW	3	3												X	
2	WP2 INF	10-5-11	1300	JFO	GW	3	3												X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@aol.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10-5-11 / 1330	1 FED EX	2 FED EX	10-05-11 / 1630	2
3 [signature]	10-6-11 915	3 [signature]	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 1.0°

T89247: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T89247 **Client:** SAS ENVIRONMENTAL **Project:** UT COLLERVILLE

Date / Time Received: 10/6/2011 **Delivery Method:** **Airbill #'s:** 873923987433

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (1.1/1);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

SC 10/6/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www.accutest.com

T89247: Chain of Custody
Page 2 of 3

Sample Receipt Log

Job #: T89247 **Date / Time Received:** 10/6/2011 9:15:00 AM **Initials:** EC

Client: SAS ENVIRONMENTAL

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T89247-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T89247-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T89247-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T89247-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T89247-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1
1	T89247-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.1	-0.1	1

T89247: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-MB	E0012640.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-MB	E0012640.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%

Method Blank Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-MB	E0012640.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Blank Spike Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-BS	E0012638.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	117	94	62-124
71-43-2	Benzene	25	24.2	97	76-118
108-86-1	Bromobenzene	25	24.2	97	72-110
74-97-5	Bromochloromethane	25	22.7	91	69-110
75-27-4	Bromodichloromethane	25	23.7	95	68-107
75-25-2	Bromoform	25	17.9	72	64-103
104-51-8	n-Butylbenzene	25	25.7	103	74-114
135-98-8	sec-Butylbenzene	25	26.2	105	76-118
98-06-6	tert-Butylbenzene	25	27.9	112	72-116
108-90-7	Chlorobenzene	25	24.3	97	74-111
75-00-3	Chloroethane	25	19.7	79	75-135
67-66-3	Chloroform	25	25.3	101	75-117
95-49-8	o-Chlorotoluene	25	26.7	107	74-113
106-43-4	p-Chlorotoluene	25	26.9	108	72-114
75-15-0	Carbon disulfide	25	24.4	98	57-126
56-23-5	Carbon tetrachloride	25	27.3	109	75-125
75-34-3	1,1-Dichloroethane	25	25.7	103	76-121
75-35-4	1,1-Dichloroethylene	25	28.6	114	71-128
563-58-6	1,1-Dichloropropene	25	27.6	110	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	24.5	98	55-121
106-93-4	1,2-Dibromoethane	25	24.0	96	69-106
107-06-2	1,2-Dichloroethane	25	28.6	114* [a]	70-111
78-87-5	1,2-Dichloropropane	25	24.9	100	71-113
142-28-9	1,3-Dichloropropane	25	24.7	99	69-106
594-20-7	2,2-Dichloropropane	25	24.2	97	68-130
124-48-1	Dibromochloromethane	25	21.5	86	69-104
75-71-8	Dichlorodifluoromethane	25	21.8	87	28-120
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.1	92	71-111
541-73-1	m-Dichlorobenzene	25	24.7	99	74-110
95-50-1	o-Dichlorobenzene	25	25.0	100	72-108
106-46-7	p-Dichlorobenzene	25	24.3	97	74-110
156-60-5	trans-1,2-Dichloroethylene	25	25.7	103	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	75-111
100-41-4	Ethylbenzene	25	24.7	99	75-112
591-78-6	2-Hexanone	125	121	97	60-113

Blank Spike Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-BS	E0012638.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	22.6	90	72-123
98-82-8	Isopropylbenzene	25	29.8	119	75-123
99-87-6	p-Isopropyltoluene	25	26.5	106	76-116
108-10-1	4-Methyl-2-pentanone	125	119	95	63-115
74-83-9	Methyl bromide	25	18.9	76	59-132
74-87-3	Methyl chloride	25	18.4	74	56-150
74-95-3	Methylene bromide	25	24.3	97	68-114
75-09-2	Methylene chloride	25	26.4	106	70-113
78-93-3	Methyl ethyl ketone	125	118	94	62-117
1634-04-4	Methyl Tert Butyl Ether	25	22.5	90	65-113
91-20-3	Naphthalene	25	22.3	89	53-127
103-65-1	n-Propylbenzene	25	26.4	106	74-115
100-42-5	Styrene	25	24.1	96	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	23.9	96	72-108
71-55-6	1,1,1-Trichloroethane	25	26.6	106	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	24.2	97	67-110
79-00-5	1,1,2-Trichloroethane	25	24.1	96	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.8	91	51-128
96-18-4	1,2,3-Trichloropropane	25	25.0	100	55-116
120-82-1	1,2,4-Trichlorobenzene	25	22.5	90	63-114
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	73-111
108-67-8	1,3,5-Trimethylbenzene	25	25.0	100	74-115
127-18-4	Tetrachloroethylene	25	26.1	104	77-120
108-88-3	Toluene	25	24.2	97	77-114
79-01-6	Trichloroethylene	25	25.0	100	74-117
75-69-4	Trichlorofluoromethane	25	23.9	96	64-132
75-01-4	Vinyl chloride	25	19.1	76	64-121
1330-20-7	Xylene (total)	75	75.8	101	75-111
	m,p-Xylene	50	50.9	102	75-112
95-47-6	o-Xylene	25	24.9	100	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	110%	75-121%

Blank Spike Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE599-BS	E0012638.D	1	10/13/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	101%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T89676-1MS	E0012643.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1MSD	E0012644.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1	E0012642.D	1	10/14/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	T89676-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	114	91	143	114	23*	62-124/21
71-43-2	Benzene	1.0 U		25	22.8	91	23.0	92	1	76-118/16
108-86-1	Bromobenzene	1.0 U		25	22.8	91	23.3	93	2	72-110/12
74-97-5	Bromochloromethane	1.0 U		25	21.4	86	22.4	90	5	69-110/12
75-27-4	Bromodichloromethane	1.0 U		25	21.4	86	21.0	84	2	68-107/12
75-25-2	Bromoform	1.0 U		25	14.9	60*	16.1	64	8	64-103/14
104-51-8	n-Butylbenzene	3.8		25	27.3	94	28.2	98	3	74-114/12
135-98-8	sec-Butylbenzene	5.1		25	28.9	95	30.3	101	5	76-118/12
98-06-6	tert-Butylbenzene	1.5		25	27.5	104	29.4	112	7	72-116/14
108-90-7	Chlorobenzene	0.44	J	25	23.2	91	23.4	92	1	74-111/11
75-00-3	Chloroethane	1.0 U		25	19.7	79	18.0	72*	9	75-135/15
67-66-3	Chloroform	1.0 U		25	23.9	96	24.4	98	2	75-117/12
95-49-8	o-Chlorotoluene	1.0 U		25	24.9	100	25.8	103	4	74-113/12
106-43-4	p-Chlorotoluene	1.0 U		25	25.1	100	25.9	104	3	72-114/12
75-15-0	Carbon disulfide	1.0 U		25	20.3	81	18.7	75	8	57-126/13
56-23-5	Carbon tetrachloride	1.0 U		25	24.8	99	23.3	93	6	75-125/12
75-34-3	1,1-Dichloroethane	1.0 U		25	24.2	97	24.3	97	0	76-121/13
75-35-4	1,1-Dichloroethylene	1.0 U		25	26.9	108	27.6	110	3	71-128/19
563-58-6	1,1-Dichloropropene	1.0 U		25	25.6	102	25.6	102	0	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	24.7	99	31.1	124*	23	55-121/33
106-93-4	1,2-Dibromoethane	1.0 U		25	22.4	90	25.3	101	12	69-106/13
107-06-2	1,2-Dichloroethane	1.0 U		25	27.0	108	27.9	112*	3	70-111/14
78-87-5	1,2-Dichloropropane	1.0 U		25	23.4	94	23.6	94	1	71-113/12
142-28-9	1,3-Dichloropropane	1.0 U		25	23.4	94	25.6	102	9	69-106/12
594-20-7	2,2-Dichloropropane	1.0 U		25	22.8	91	22.6	90	1	68-130/14
124-48-1	Dibromochloromethane	1.0 U		25	19.4	78	19.1	76	2	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		25	21.8	87	20.8	83	5	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	22.1	88	22.5	90	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.1	80	19.7	79	2	71-111/12
541-73-1	m-Dichlorobenzene	1.0 U		25	22.8	91	23.8	95	4	74-110/12
95-50-1	o-Dichlorobenzene	1.0 U		25	23.2	93	25.0	100	7	72-108/12
106-46-7	p-Dichlorobenzene	1.0 U		25	22.8	91	24.0	96	5	74-110/12
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	24.4	98	23.7	95	3	70-125/14
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	21.7	87	21.6	86	0	75-111/12
100-41-4	Ethylbenzene	1.0 U		25	23.4	94	23.8	95	2	75-112/12
591-78-6	2-Hexanone	10 U		125	117	94	151	121*	25*	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T89676-1MS	E0012643.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1MSD	E0012644.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1	E0012642.D	1	10/14/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Compound	T89676-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	1.0 U		25	19.8	79	20.1	80	2	72-123/17
98-82-8	Isopropylbenzene	28.4		25	55.3	108	52.5	96	5	75-123/12
99-87-6	p-Isopropyltoluene	1.0 U		25	24.2	97	25.6	102	6	76-116/12
108-10-1	4-Methyl-2-pentanone	10 U		125	116	93	146	117*	23*	63-115/21
74-83-9	Methyl bromide	1.0 U		25	17.3	69	16.1	64	7	59-132/15
74-87-3	Methyl chloride	1.0 U		25	16.9	68	15.5	62	9	56-150/17
74-95-3	Methylene bromide	1.0 U		25	23.1	92	25.0	100	8	68-114/13
75-09-2	Methylene chloride	5.0 U		25	24.2	97	24.6	98	2	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	112	90	148	118*	28*	62-117/21
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	22.0	88	24.3	97	10	65-113/13
91-20-3	Naphthalene	5.0 U		25	21.1	84	27.6	110	27	53-127/34
103-65-1	n-Propylbenzene	26.9		25	50.8	96	47.8	84	6	74-115/12
100-42-5	Styrene	1.0 U		25	19.1	76	18.3	73*	4	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	22.1	88	22.2	89	0	72-108/11
71-55-6	1,1,1-Trichloroethane	1.0 U		25	25.4	102	25.4	102	0	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	22.6	90	26.8	107	17	67-110/20
79-00-5	1,1,2-Trichloroethane	1.0 U		25	23.9	96	24.9	100	4	69-107/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	19.6	78	24.3	97	21	51-128/31
96-18-4	1,2,3-Trichloropropane	1.0 U		25	23.9	96	29.1	116	20	55-116/27
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	19.6	78	23.2	93	17	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1.0 U		25	22.5	90	23.0	92	2	73-111/13
108-67-8	1,3,5-Trimethylbenzene	1.0 U		25	22.3	89	23.1	92	4	74-115/12
127-18-4	Tetrachloroethylene	1.0 U		25	25.1	100	26.8	107	7	77-120/13
108-88-3	Toluene	1.0 U		25	23.0	92	23.2	93	1	77-114/12
79-01-6	Trichloroethylene	1.0 U		25	23.5	94	25.2	101	7	74-117/12
75-69-4	Trichlorofluoromethane	1.0 U		25	23.2	93	21.7	87	7	64-132/18
75-01-4	Vinyl chloride	1.0 U		25	18.2	73	17.2	69	6	64-121/19
1330-20-7	Xylene (total)	3.0 U		75	71.1	95	71.6	95	1	75-111/12
	m,p-Xylene	2.0 U		50	47.6	95	47.7	95	0	75-112/12
95-47-6	o-Xylene	1.0 U		25	23.5	94	23.8	95	1	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T89676-1	Limits
1868-53-7	Dibromofluoromethane	98%	96%	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	110%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T89247
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T89676-1MS	E0012643.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1MSD	E0012644.D	1	10/14/11	LT	n/a	n/a	VE599
T89676-1	E0012642.D	1	10/14/11	LT	n/a	n/a	VE599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T89247-1, T89247-2

CAS No.	Surrogate Recoveries	MS	MSD	T89676-1	Limits
2037-26-5	Toluene-D8	94%	94%	94%	87-119%
460-00-4	4-Bromofluorobenzene	96%	98%	99%	80-133%

Gulf Coast ACCUTEST LABORATORIES

11/16/11

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T90685

Sampling Date: 10/20/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-11-5) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@53603 20:06 16-Nov-2011

Sample Summary

United Technology Corporation

Job No: T90685

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T90685-1	10/20/11	13:15		10/21/11	AQ	Ground Water	MW60
T90685-2	10/20/11	13:55		10/21/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T90685
Site:	XDD/UT Collierville/031091	**Report Date**	11/1/2011 9:02:20 AM

2 Sample(s), were collected on 10/20/2011 and were received at Accutest on 10/21/2011 properly preserved, at 3.3 Deg. C and intact. These Samples received an Accutest job number of T90685. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VZ3437

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T91042-2MS, T91042-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Tetrachloroethylene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,2-Dichloropropane, Tetrachloroethylene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T90685-1	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z021543.D	1	10/30/11	DR	n/a	n/a	VZ3437
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T90685-1	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-122%
17060-07-0	1,2-Dichloroethane-D4	84%		75-121%
2037-26-5	Toluene-D8	101%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T90685-1	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T90685-2	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z021544.D	1	10/30/11	DR	n/a	n/a	VZ3437
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T90685-2	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	81%		75-121%
2037-26-5	Toluene-D8	101%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T90685-2	**Date Sampled:**	10/20/11
Matrix:	AQ - Ground Water	**Date Received:**	10/21/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # T90685

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD SUITE 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK V. ALLEN E-mail: MICHELLE@SASENVIRONMENTAL.COM
Phone #: 330 239 9800 Fax #: 330 329 2983
Sampler(s) Name(s): FRANK COONNELL JR. Phone #: 330 239 9800

Project Information

Project Name: VT COLLIERVILLE
Street: 97 S BYHALIA RD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #:
Project Manager: MARK V. ALLEN

Billing Information (if different from Report to)

Company Name: XOD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	10-20-11	1315	JFO	GW	3	3												X	
2	MW 62	10-20-11	1355	JFO	GW	3	3												X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@COL.COM
BILL to XOD

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10-20-11 / 1445	1 FEDEX	2 FEDEX	10-20-11 / 1445	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact
Preserved where applicable ☐
On Ice ☑
Cooler Temp. 3.3

T90685: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T90685 **Client:** SAS ENVIRONMENTAL INC **Project:** VT COLLIERVILLE

Date / Time Received: 10/21/2011 **Delivery Method:** Accutest Courier **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.3;

Cooler Temps (Initial/Adjusted): #1: (3.6/3.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	or N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☐	☑	☐	☐
2. Trip Blank listed on COC:	☐	☐	☑		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

10/21/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T90685: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T90685 **Date / Time Received:** 10/21/2011 2:45:00 PM **Initials:** TH

Client: SAS ENVIRONMENTAL INC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T90685-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3
1	T90685-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3
1	T90685-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3
1	T90685-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3
1	T90685-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3
1	T90685-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	3.6	-0.3	3.3

T90685: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-MB	Z021533.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-MB	Z021533.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%

Method Blank Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-MB	Z021533.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Blank Spike Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-BS	Z021531.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	62-124
71-43-2	Benzene	25	24.2	97	76-118
108-86-1	Bromobenzene	25	24.5	98	72-110
74-97-5	Bromochloromethane	25	23.4	94	69-110
75-27-4	Bromodichloromethane	25	21.9	88	68-107
75-25-2	Bromoform	25	22.2	89	64-103
104-51-8	n-Butylbenzene	25	22.5	90	74-114
135-98-8	sec-Butylbenzene	25	25.0	100	76-118
98-06-6	tert-Butylbenzene	25	23.8	95	72-116
108-90-7	Chlorobenzene	25	24.9	100	74-111
75-00-3	Chloroethane	25	21.1	84	75-135
67-66-3	Chloroform	25	22.2	89	75-117
95-49-8	o-Chlorotoluene	25	24.5	98	74-113
106-43-4	p-Chlorotoluene	25	24.5	98	72-114
75-15-0	Carbon disulfide	25	24.4	98	57-126
56-23-5	Carbon tetrachloride	25	24.6	98	75-125
75-34-3	1,1-Dichloroethane	25	24.1	96	76-121
75-35-4	1,1-Dichloroethylene	25	26.5	106	71-128
563-58-6	1,1-Dichloropropene	25	25.7	103	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.5	86	55-121
106-93-4	1,2-Dibromoethane	25	24.4	98	69-106
107-06-2	1,2-Dichloroethane	25	20.8	83	70-111
78-87-5	1,2-Dichloropropane	25	23.4	94	71-113
142-28-9	1,3-Dichloropropane	25	24.9	100	69-106
594-20-7	2,2-Dichloropropane	25	17.8	71	68-130
124-48-1	Dibromochloromethane	25	22.8	91	69-104
75-71-8	Dichlorodifluoromethane	25	28.0	112	28-120
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.5	90	71-111
541-73-1	m-Dichlorobenzene	25	24.8	99	74-110
95-50-1	o-Dichlorobenzene	25	24.4	98	72-108
106-46-7	p-Dichlorobenzene	25	23.8	95	74-110
156-60-5	trans-1,2-Dichloroethylene	25	24.6	98	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.5	98	75-111
100-41-4	Ethylbenzene	25	24.6	98	75-112
591-78-6	2-Hexanone	125	113	90	60-113

Blank Spike Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-BS	Z021531.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	24.9	100	72-123
98-82-8	Isopropylbenzene	25	29.7	119	75-123
99-87-6	p-Isopropyltoluene	25	25.0	100	76-116
108-10-1	4-Methyl-2-pentanone	125	110	88	63-115
74-83-9	Methyl bromide	25	21.2	85	59-132
74-87-3	Methyl chloride	25	24.8	99	56-150
74-95-3	Methylene bromide	25	21.4	86	68-114
75-09-2	Methylene chloride	25	22.7	91	70-113
78-93-3	Methyl ethyl ketone	125	114	91	62-117
1634-04-4	Methyl Tert Butyl Ether	25	22.5	90	65-113
91-20-3	Naphthalene	25	20.5	82	53-127
103-65-1	n-Propylbenzene	25	25.3	101	74-115
100-42-5	Styrene	25	24.4	98	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	24.2	97	72-108
71-55-6	1,1,1-Trichloroethane	25	23.4	94	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	67-110
79-00-5	1,1,2-Trichloroethane	25	24.6	98	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	51-128
96-18-4	1,2,3-Trichloropropane	25	24.9	100	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.6	94	63-114
95-63-6	1,2,4-Trimethylbenzene	25	23.8	95	73-111
108-67-8	1,3,5-Trimethylbenzene	25	24.0	96	74-115
127-18-4	Tetrachloroethylene	25	28.7	115	77-120
108-88-3	Toluene	25	25.2	101	77-114
79-01-6	Trichloroethylene	25	23.4	94	74-117
75-69-4	Trichlorofluoromethane	25	21.4	86	64-132
75-01-4	Vinyl chloride	25	22.4	90	64-121
1330-20-7	Xylene (total)	75	74.3	99	75-111
	m,p-Xylene	50	49.3	99	75-112
95-47-6	o-Xylene	25	25.0	100	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	88%	79-122%
17060-07-0	1,2-Dichloroethane-D4	81%	75-121%

Blank Spike Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3437-BS	Z021531.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T91042-2MS	Z021535.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1MSD	Z021536.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1 [a]	Z021538.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	T91042-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	101	81	111	89	9	62-124/21
71-43-2	Benzene	1.0 U		25	23.3	93	23.6	94	1	76-118/16
108-86-1	Bromobenzene	1.0 U		25	23.9	96	23.9	96	0	72-110/12
74-97-5	Bromochloromethane	1.0 U		25	22.5	90	23.0	92	2	69-110/12
75-27-4	Bromodichloromethane	1.0 U		25	20.9	84	21.7	87	4	68-107/12
75-25-2	Bromoform	1.0 U		25	20.9	84	21.9	88	5	64-103/14
104-51-8	n-Butylbenzene	1.0 U		25	21.3	85	21.0	84	1	74-114/12
135-98-8	sec-Butylbenzene	1.0 U		25	23.5	94	23.3	93	1	76-118/12
98-06-6	tert-Butylbenzene	1.0 U		25	23.1	92	22.4	90	3	72-116/14
108-90-7	Chlorobenzene	1.0 U		25	23.3	93	23.7	95	2	74-111/11
75-00-3	Chloroethane	1.0 U		25	21.1	84	21.0	84	0	75-135/15
67-66-3	Chloroform	1.0 U		25	21.3	85	21.3	85	0	75-117/12
95-49-8	o-Chlorotoluene	1.0 U		25	24.1	96	23.6	94	2	74-113/12
106-43-4	p-Chlorotoluene	1.0 U		25	23.8	95	23.4	94	2	72-114/12
75-15-0	Carbon disulfide	1.0 U		25	23.5	94	23.0	92	2	57-126/13
56-23-5	Carbon tetrachloride	1.0 U		25	22.7	91	22.6	90	0	75-125/12
75-34-3	1,1-Dichloroethane	1.0 U		25	23.0	92	23.0	92	0	76-121/13
75-35-4	1,1-Dichloroethylene	1.0 U		25	25.4	102	24.9	100	2	71-128/19
563-58-6	1,1-Dichloropropene	1.0 U		25	24.3	97	23.6	94	3	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	20.4	82	23.4	94	14	55-121/33
106-93-4	1,2-Dibromoethane	1.0 U		25	22.3	89	23.7	95	6	69-106/13
107-06-2	1,2-Dichloroethane	1.0 U		25	19.4	78	20.5	82	6	70-111/14
78-87-5	1,2-Dichloropropane	1.0 U		25	22.5	90	22.7	91	1	71-113/12
142-28-9	1,3-Dichloropropane	1.0 U		25	23.2	93	24.3	97	5	69-106/12
594-20-7	2,2-Dichloropropane	1.0 U		25	17.3	69	15.8	63*	9	68-130/14
124-48-1	Dibromochloromethane	1.0 U		25	21.7	87	22.3	89	3	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		25	27.6	110	26.6	106	4	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	22.6	90	23.1	92	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	21.5	86	21.7	87	1	71-111/12
541-73-1	m-Dichlorobenzene	1.0 U		25	23.6	94	23.7	95	0	74-110/12
95-50-1	o-Dichlorobenzene	1.0 U		25	23.2	93	23.9	96	3	72-108/12
106-46-7	p-Dichlorobenzene	1.0 U		25	22.6	90	23.2	93	3	74-110/12
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	23.4	94	23.4	94	0	70-125/14
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	22.6	90	23.1	92	2	75-111/12
100-41-4	Ethylbenzene	1.0 U		25	23.4	94	23.6	94	1	75-112/12
591-78-6	2-Hexanone	10 U		125	104	83	119	95	13	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T91042-2MS	Z021535.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1MSD	Z021536.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1 [a]	Z021538.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Compound	T91042-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	1.0 U		25	22.4	90	24.1	96	7	72-123/17
98-82-8	Isopropylbenzene	1.0 U		25	29.0	116	28.4	114	2	75-123/12
99-87-6	p-Isopropyltoluene	1.0 U		25	23.3	93	23.1	92	1	76-116/12
108-10-1	4-Methyl-2-pentanone	10 U		125	102	82	114	91	11	63-115/21
74-83-9	Methyl bromide	1.0 U		25	21.0	84	21.2	85	1	59-132/15
74-87-3	Methyl chloride	1.0 U		25	24.7	99	24.1	96	2	56-150/17
74-95-3	Methylene bromide	1.0 U		25	21.5	86	22.2	89	3	68-114/13
75-09-2	Methylene chloride	5.0 U		25	20.9	84	21.1	84	1	70-113/13
78-93-3	Methyl ethyl ketone	4.4	J	125	108	86	120	92	11	62-117/21
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	21.2	85	22.6	90	6	65-113/13
91-20-3	Naphthalene	5.0 U		25	18.2	73	21.6	86	17	53-127/34
103-65-1	n-Propylbenzene	1.0 U		25	24.3	97	23.8	95	2	74-115/12
100-42-5	Styrene	1.0 U		25	23.6	94	23.9	96	1	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	22.7	91	23.3	93	3	72-108/11
71-55-6	1,1,1-Trichloroethane	1.0 U		25	22.6	90	22.2	89	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	22.8	91	24.1	96	6	67-110/20
79-00-5	1,1,2-Trichloroethane	1.0 U		25	22.9	92	24.9	100	8	69-107/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	21.6	86	24.7	99	13	51-128/31
96-18-4	1,2,3-Trichloropropane	1.0 U		25	23.5	94	24.6	98	5	55-116/27
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	22.4	90	23.3	93	4	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1.0 U		25	23.0	92	23.2	93	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	1.0 U		25	23.0	92	22.5	90	2	74-115/12
127-18-4	Tetrachloroethylene	1.0 U		25	30.5	122*	30.6	122*	0	77-120/13
108-88-3	Toluene	1.0 U		25	23.8	95	23.6	94	1	77-114/12
79-01-6	Trichloroethylene	1.0 U		25	22.7	91	22.5	90	1	74-117/12
75-69-4	Trichlorofluoromethane	1.0 U		25	21.4	86	20.0	80	7	64-132/18
75-01-4	Vinyl chloride	1.0 U		25	22.0	88	21.3	85	3	64-121/19
1330-20-7	Xylene (total)	3.0 U		75	70.6	94	71.8	96	2	75-111/12
	m,p-Xylene	2.0 U		50	46.9	94	48.1	96	3	75-112/12
95-47-6	o-Xylene	1.0 U		25	23.7	95	23.7	95	0	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T91042-1	Limits
1868-53-7	Dibromofluoromethane	86%	90%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	77%	81%	84%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T90685
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T91042-2MS	Z021535.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1MSD	Z021536.D	1	10/30/11	DR	n/a	n/a	VZ3437
T91042-1 [a]	Z021538.D	1	10/30/11	DR	n/a	n/a	VZ3437

The QC reported here applies to the following samples: **Method:** SW846 8260B

T90685-1, T90685-2

CAS No.	Surrogate Recoveries	MS	MSD	T91042-1	Limits
2037-26-5	Toluene-D8	95%	98%	100%	87-119%
460-00-4	4-Bromofluorobenzene	96%	97%	97%	80-133%

(a) Sample was not preserved to a pH < 2

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T93952

Sampling Date: 11/29/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **25**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55449 15:08 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T93952

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T93952-1	11/29/11	13:05		11/30/11	AQ	Ground Water	MW60
T93952-2	11/29/11	13:50		11/30/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T93952
Site:	XDD/UT Collierville/031091	**Report Date**	12/13/2011 8:58:44 AM

2 Samples were collected on 11/29/2011 and were received intact at Accutest on 11/30/2011 and properly preserved in 1 cooler at 1.5 Deg C These Samples received an Accutest job number of T93952. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VK173

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T93952-1MS, T93952-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T93952-1	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K03394.D	1	12/01/11	EM	n/a	n/a	VK173
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T93952-1	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	98%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T93952-1	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T93952-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K03395.D	1	12/01/11	EM	n/a	n/a	VK173
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T93952-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	99%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T93952-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T93952

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD SUITE 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK V. ALLEN E-mail: m.allen@SASENVIRONMENTAL.com
Phone #: 330 239 9800 Fax #: 330 239 2983
Sampler(s) Name(s): J FRANK O'CONNELL Jr Phone #: 330 239 9800

Project Information

Project Name: UT COLLIERVILLE
Street: 97 S. BYHALIA ROAD
City: COLLIERVILLE State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: MARK V. ALLEN

Billing Information (If different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	LAB USE ONLY
1	MW 60	11-29-11	1305	JFO	GW	3	3												X	
2	MW 62	11-29-11	1350	JFO	GW	3	3												X	

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS to JFO121@acc.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	11-29-11 / 1440	1 FED EX	2 FED EX	11-29-11 / 1440	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact
Preserved where applicable ☐
On Ice Cooler Temp. 4.1 °C

4.1
4

T93952: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T93952 **Client:** SASENVIROMENTAL INC **Project:** UT COLLIERVINE

Date / Time Received: 11/30/2011 **Delivery Method:** **Airbill #'s:** 870667004765

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (1.6/1.5);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☐	☑	☐	☐
2. Trip Blank listed on COC:	☐	☐	☑		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☐	☐	☑		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T93952: Chain of Custody
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Sample Receipt Log

Job #: T93952 **Date / Time Received:** 11/30/2011 2:40:00 PM **Initials:** CH

Client: SASENVIROMENTAL INC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T93952-1	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5
1	T93952-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5
1	T93952-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5
1	T93952-2	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5
1	T93952-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5
1	T93952-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	1.6	-0.1	1.5

T93952: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-MB	K03393.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-MB	K03393.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	75-121%

Method Blank Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-MB	K03393.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	107%	80-133%

Blank Spike Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-BS	K03391.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	88.5	71	62-124
71-43-2	Benzene	25	22.1	88	76-118
108-86-1	Bromobenzene	25	22.7	91	72-110
74-97-5	Bromochloromethane	25	22.3	89	69-110
75-27-4	Bromodichloromethane	25	22.3	89	68-107
75-25-2	Bromoform	25	20.8	83	64-103
104-51-8	n-Butylbenzene	25	21.4	86	74-114
135-98-8	sec-Butylbenzene	25	23.2	93	76-118
98-06-6	tert-Butylbenzene	25	23.0	92	72-116
108-90-7	Chlorobenzene	25	22.1	88	74-111
75-00-3	Chloroethane	25	22.6	90	75-135
67-66-3	Chloroform	25	22.0	88	75-117
95-49-8	o-Chlorotoluene	25	23.1	92	74-113
106-43-4	p-Chlorotoluene	25	22.7	91	72-114
75-15-0	Carbon disulfide	25	19.4	78	57-126
56-23-5	Carbon tetrachloride	25	24.4	98	75-125
75-34-3	1,1-Dichloroethane	25	23.2	93	76-121
75-35-4	1,1-Dichloroethylene	25	26.4	106	71-128
563-58-6	1,1-Dichloropropene	25	23.4	94	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.8	87	55-121
106-93-4	1,2-Dibromoethane	25	21.4	86	69-106
107-06-2	1,2-Dichloroethane	25	22.6	90	70-111
78-87-5	1,2-Dichloropropane	25	22.0	88	71-113
142-28-9	1,3-Dichloropropane	25	21.7	87	69-106
594-20-7	2,2-Dichloropropane	25	24.1	96	68-130
124-48-1	Dibromochloromethane	25	21.9	88	69-104
75-71-8	Dichlorodifluoromethane	25	29.0	116	28-120
156-59-2	cis-1,2-Dichloroethylene	25	22.0	88	68-113
10061-01-5	cis-1,3-Dichloropropene	25	21.9	88	71-111
541-73-1	m-Dichlorobenzene	25	22.8	91	74-110
95-50-1	o-Dichlorobenzene	25	22.2	89	72-108
106-46-7	p-Dichlorobenzene	25	22.0	88	74-110
156-60-5	trans-1,2-Dichloroethylene	25	23.3	93	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.8	95	75-111
100-41-4	Ethylbenzene	25	22.7	91	75-112
591-78-6	2-Hexanone	125	97.4	78	60-113

Blank Spike Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-BS	K03391.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	22.6	90	72-123
98-82-8	Isopropylbenzene	25	27.1	108	75-123
99-87-6	p-Isopropyltoluene	25	23.2	93	76-116
108-10-1	4-Methyl-2-pentanone	125	96.0	77	63-115
74-83-9	Methyl bromide	25	21.5	86	59-132
74-87-3	Methyl chloride	25	22.3	89	56-150
74-95-3	Methylene bromide	25	20.8	83	68-114
75-09-2	Methylene chloride	25	21.2	85	70-113
78-93-3	Methyl ethyl ketone	125	102	82	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.5	86	65-113
91-20-3	Naphthalene	25	20.5	82	53-127
103-65-1	n-Propylbenzene	25	23.2	93	74-115
100-42-5	Styrene	25	22.0	88	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	22.9	92	72-108
71-55-6	1,1,1-Trichloroethane	25	23.7	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.1	84	67-110
79-00-5	1,1,2-Trichloroethane	25	21.6	86	69-107
87-61-6	1,2,3-Trichlorobenzene	25	22.1	88	51-128
96-18-4	1,2,3-Trichloropropane	25	21.4	86	55-116
120-82-1	1,2,4-Trichlorobenzene	25	22.7	91	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.5	90	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.8	87	74-115
127-18-4	Tetrachloroethylene	25	24.7	99	77-120
108-88-3	Toluene	25	22.5	90	77-114
79-01-6	Trichloroethylene	25	22.6	90	74-117
75-69-4	Trichlorofluoromethane	25	22.7	91	64-132
75-01-4	Vinyl chloride	25	19.6	78	64-121
1330-20-7	Xylene (total)	75	67.2	90	75-111
	m,p-Xylene	50	44.7	89	75-112
95-47-6	o-Xylene	25	22.5	90	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%

Blank Spike Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK173-BS	K03391.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	104%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T93952-1MS	K03396.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1MSD	K03397.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1	K03394.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	T93952-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	76.2	61*	85.0	68	11	62-124/21
71-43-2	Benzene	ND		25	22.5	90	21.8	87	3	76-118/16
108-86-1	Bromobenzene	ND		25	22.5	90	22.2	89	1	72-110/12
74-97-5	Bromochloromethane	ND		25	22.7	91	21.8	87	4	69-110/12
75-27-4	Bromodichloromethane	ND		25	22.1	88	21.7	87	2	68-107/12
75-25-2	Bromoform	ND		25	21.3	85	21.3	85	0	64-103/14
104-51-8	n-Butylbenzene	ND		25	20.7	83	20.4	82	1	74-114/12
135-98-8	sec-Butylbenzene	ND		25	22.7	91	22.1	88	3	76-118/12
98-06-6	tert-Butylbenzene	ND		25	23.1	92	22.4	90	3	72-116/14
108-90-7	Chlorobenzene	ND		25	22.1	88	21.5	86	3	74-111/11
75-00-3	Chloroethane	ND		25	22.6	90	21.6	86	5	75-135/15
67-66-3	Chloroform	ND		25	22.2	89	21.7	87	2	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.4	94	22.7	91	3	74-113/12
106-43-4	p-Chlorotoluene	ND		25	23.0	92	22.1	88	4	72-114/12
75-15-0	Carbon disulfide	ND		25	19.6	78	18.9	76	4	57-126/13
56-23-5	Carbon tetrachloride	ND		25	23.9	96	22.2	89	7	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	23.2	93	22.6	90	3	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	27.1	108	24.9	100	8	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	23.4	94	21.7	87	8	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.3	85	24.1	96	12	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	21.9	88	21.6	86	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	23.2	93	22.5	90	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	22.2	89	21.7	87	2	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	22.2	89	22.2	89	0	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	23.8	95	22.7	91	5	68-130/14
124-48-1	Dibromochloromethane	ND		25	22.4	90	21.7	87	3	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	28.6	114	24.7	99	15	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.0	88	21.3	85	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.1	88	21.6	86	2	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	22.9	92	22.3	89	3	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	22.2	89	21.8	87	2	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	22.0	88	21.5	86	2	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.7	95	22.7	91	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.0	96	23.7	95	1	75-111/12
100-41-4	Ethylbenzene	ND		25	22.8	91	21.6	86	5	75-112/12
591-78-6	2-Hexanone	ND		125	100	80	106	85	6	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T93952-1MS	K03396.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1MSD	K03397.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1	K03394.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Compound	T93952-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	20.6	82	22.1	88	7	72-123/17
98-82-8	Isopropylbenzene	ND		25	27.3	109	26.2	105	4	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	22.8	91	21.9	88	4	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	99.2	79	105	84	6	63-115/21
74-83-9	Methyl bromide	ND		25	20.8	83	20.1	80	3	59-132/15
74-87-3	Methyl chloride	ND		25	22.2	89	21.8	87	2	56-150/17
74-95-3	Methylene bromide	ND		25	21.4	86	21.0	84	2	68-114/13
75-09-2	Methylene chloride	ND		25	20.6	82	19.4	78	6	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	102	82	109	87	7	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.0	88	21.9	88	0	65-113/13
91-20-3	Naphthalene	ND		25	20.6	82	22.2	89	7	53-127/34
103-65-1	n-Propylbenzene	ND		25	23.4	94	22.5	90	4	74-115/12
100-42-5	Styrene	ND		25	22.0	88	21.2	85	4	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	22.8	91	21.7	87	5	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	24.0	96	22.5	90	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.6	86	22.3	89	3	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	22.1	88	22.5	90	2	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	21.9	88	23.3	93	6	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	22.0	88	23.1	92	5	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.0	88	23.2	93	5	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	22.5	90	21.9	88	3	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	21.8	87	21.5	86	1	74-115/12
127-18-4	Tetrachloroethylene	ND		25	24.9	100	23.3	93	7	77-120/13
108-88-3	Toluene	ND		25	22.5	90	21.7	87	4	77-114/12
79-01-6	Trichloroethylene	ND		25	22.9	92	22.4	90	2	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	23.2	93	20.4	82	13	64-132/18
75-01-4	Vinyl chloride	ND		25	19.2	77	17.8	71	8	64-121/19
1330-20-7	Xylene (total)	ND		75	67.0	89	63.9	85	5	75-111/12
	m,p-Xylene	ND		50	44.5	89	42.3	85	5	75-112/12
95-47-6	o-Xylene	ND		25	22.5	90	21.5	86	5	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T93952-1	Limits
1868-53-7	Dibromofluoromethane	96%	96%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	99%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T93952
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T93952-1MS	K03396.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1MSD	K03397.D	1	12/01/11	EM	n/a	n/a	VK173
T93952-1	K03394.D	1	12/01/11	EM	n/a	n/a	VK173

The QC reported here applies to the following samples: **Method:** SW846 8260B

T93952-1, T93952-2

CAS No.	Surrogate Recoveries	MS	MSD	T93952-1	Limits
2037-26-5	Toluene-D8	98%	98%	98%	87-119%
460-00-4	4-Bromofluorobenzene	107%	107%	105%	80-133%

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T95386

Sampling Date: 12/14/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **34**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@55450 15:11 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T95386

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T95386-1	12/14/11	13:15		12/15/11	AQ	Ground Water	MW60
T95386-2	12/14/11	14:05		12/15/11	AQ	Ground Water	MW62

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T95386
Site:	XDD/UT Collierville/031091	**Report Date**	1/3/2012 7:14:32 PM

2 Samples were collected on 12/14/2011 and were received intact at Accutest on 12/15/2011 and properly preserved in 1 cooler at 3.9 Deg C. These Samples received an Accutest job number of T95386. A listing of the Laboratory Sample ID, Client Sample ID and date of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VG335

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T95240-8MS, T95240-8MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Dichlorodifluoromethane, Isopropylbenzene are outside control limits. Recoveries biased high, only non-detect results reported.
- Matrix Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Carbon disulfide are outside control limits for sample T95240-8MSD. Probable cause due to sample non-homogeneity.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP16412

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T95389-1DUP, T95389-1MS, T95389-1MSD, T95389-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Lead, Zinc are outside control limits for sample MP16412-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T95386-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G007702.D	1	12/22/11	AK	n/a	n/a	VG335
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T95386-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-122%
17060-07-0	1,2-Dichloroethane-D4	86%		75-121%
2037-26-5	Toluene-D8	94%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T95386-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW60		
Lab Sample ID:	T95386-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6366
(2) Prep QC Batch: MP16412

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T95386-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G007703.D	1	12/22/11	AK	n/a	n/a	VG335
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T95386-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	87%		75-121%
2037-26-5	Toluene-D8	93%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T95386-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW62		
Lab Sample ID:	T95386-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Lead	< 3.0	3.0	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6366
(2) Prep QC Batch: MP16412

RL = Reporting Limit

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: T95386

Client / Reporting Information

Company Name: SASENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD SUITE 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK VALLEN E-mail: MVALLEN@SASENVIRONMENTAL.COM
Phone #: 330 239 9808 Fax #: 330 239 2983
Sampler(s) Name(s): FRANK O'CONNELL Phone #: 330 239 9808

Project Information

Project Name: UT COLLINSVILLE
Street: 77 S. BYHALIA RD
City: COLLINSVILLE State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD-LLC
Project Manager: MARK V. ALLEN
Billing Information (If different from Report to)
Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885
Attention: BRUCE CLIFF

Requested Analyses: VOC 8260 FULL LIST; LEAD/ZINC/TOTAL CR

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260 FULL LIST	LEAD/ZINC/TOTAL CR	LAB USE ONLY
1	MW 60	12-14-11	1315	JFO	GW	4	3			1									X	X	
2	MW 62	12-14-11	1405	JFO	GW	4	3			1									X	X	

Turnaround Time (Business days)
- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions:
LOG IN UNDER UTC
STANDARD TAT
EMAIL RESULTS TO FOI2K@AOL.COM
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12-14-11/1650	1 FEDEX	2 FEDEX	12-14-11/1650	2 [signature] 12/15/11
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

T95386: Chain of Custody
Page 1 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T95386 **Client:** SAS ENVIRONMENTAL **Project:** UT COLLERVILLE

Date / Time Received: 12/15/2011 **Delivery Method:** **Airbill #'s:** 870986197129

No. Coolers: **Therm ID:** **Temp Adjustment Factor:**

Cooler Temps (Initial/Adjusted): #1: (4/3.9);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:		

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments RECEIVED TRIP BLANK BUT NOT ON COC.

Accutest Laboratories
V:713.271.4700
10165 Harwin Drive
F: 713.271.4770
Houston, TX 77036
www/accutest.com

Problem Resolution

Accutest Job Number: T95386

CSR: Sylvia Garza

Response Date: 12/15/2011

Response: Client places TB on HOLD.

Sample Receipt Log

Job #: T95386 **Date / Time Received:** 12/15/2011 9:40:00 AM **Initials:** EC

Client: SAS ENVIRONMENTAL

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T95386-1	500 ml	1	M2E	HNO3	pH < 2	IRGUN4	4	-0.1	3.9
1	T95386-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-2	500 ml	1	M2E	HNO3	pH < 2	IRGUN4	4	-0.1	3.9
1	T95386-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95386-3	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9

T95386: Chain of Custody
Page 4 of 4

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-MB	G007694.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-MB	G007694.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	2.2	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	75-121%

Method Blank Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-MB	G007694.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	93%	80-133%

Blank Spike Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-BS	G007692.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	92.0	74	62-124
71-43-2	Benzene	25	25.8	103	76-118
108-86-1	Bromobenzene	25	24.2	97	72-110
74-97-5	Bromochloromethane	25	22.4	90	69-110
75-27-4	Bromodichloromethane	25	24.5	98	68-107
75-25-2	Bromoform	25	18.8	75	64-103
104-51-8	n-Butylbenzene	25	26.9	108	74-114
135-98-8	sec-Butylbenzene	25	27.7	111	76-118
98-06-6	tert-Butylbenzene	25	27.0	108	72-116
108-90-7	Chlorobenzene	25	25.2	101	74-111
75-00-3	Chloroethane	25	27.7	111	75-135
67-66-3	Chloroform	25	25.3	101	75-117
95-49-8	o-Chlorotoluene	25	26.7	107	74-113
106-43-4	p-Chlorotoluene	25	26.7	107	72-114
75-15-0	Carbon disulfide	25	30.6	122	57-126
56-23-5	Carbon tetrachloride	25	25.9	104	75-125
75-34-3	1,1-Dichloroethane	25	25.7	103	76-121
75-35-4	1,1-Dichloroethylene	25	30.1	120	71-128
563-58-6	1,1-Dichloropropene	25	28.1	112	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	15.4	62	55-121
106-93-4	1,2-Dibromoethane	25	21.8	87	69-106
107-06-2	1,2-Dichloroethane	25	23.4	94	70-111
78-87-5	1,2-Dichloropropane	25	25.3	101	71-113
142-28-9	1,3-Dichloropropane	25	21.8	87	69-106
594-20-7	2,2-Dichloropropane	25	26.6	106	68-130
124-48-1	Dibromochloromethane	25	21.1	84	69-104
75-71-8	Dichlorodifluoromethane	25	31.8	127* [a]	28-120
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	71-111
541-73-1	m-Dichlorobenzene	25	25.9	104	74-110
95-50-1	o-Dichlorobenzene	25	24.8	99	72-108
106-46-7	p-Dichlorobenzene	25	25.0	100	74-110
156-60-5	trans-1,2-Dichloroethylene	25	26.2	105	70-125
10061-02-6	trans-1,3-Dichloropropene	25	23.0	92	75-111
100-41-4	Ethylbenzene	25	25.9	104	75-112
591-78-6	2-Hexanone	125	92.1	74	60-113

Blank Spike Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-BS	G007692.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	26.2	105	72-123
98-82-8	Isopropylbenzene	25	31.7	127* [a]	75-123
99-87-6	p-Isopropyltoluene	25	27.7	111	76-116
108-10-1	4-Methyl-2-pentanone	125	95.1	76	63-115
74-83-9	Methyl bromide	25	27.4	110	59-132
74-87-3	Methyl chloride	25	25.0	100	56-150
74-95-3	Methylene bromide	25	22.5	90	68-114
75-09-2	Methylene chloride	25	25.2	101	70-113
78-93-3	Methyl ethyl ketone	125	117	94	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.1	84	65-113
91-20-3	Naphthalene	25	14.7	59	53-127
103-65-1	n-Propylbenzene	25	27.7	111	74-115
100-42-5	Styrene	25	25.8	103	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	24.4	98	72-108
71-55-6	1,1,1-Trichloroethane	25	28.1	112	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	19.7	79	67-110
79-00-5	1,1,2-Trichloroethane	25	21.3	85	69-107
87-61-6	1,2,3-Trichlorobenzene	25	16.8	67	51-128
96-18-4	1,2,3-Trichloropropane	25	19.6	78	55-116
120-82-1	1,2,4-Trichlorobenzene	25	20.9	84	63-114
95-63-6	1,2,4-Trimethylbenzene	25	25.9	104	73-111
108-67-8	1,3,5-Trimethylbenzene	25	25.7	103	74-115
127-18-4	Tetrachloroethylene	25	29.8	119	77-120
108-88-3	Toluene	25	25.7	103	77-114
79-01-6	Trichloroethylene	25	24.5	98	74-117
75-69-4	Trichlorofluoromethane	25	32.3	129	64-132
75-01-4	Vinyl chloride	25	22.9	92	64-121
1330-20-7	Xylene (total)	75	77.9	104	75-111
	m,p-Xylene	50	52.2	104	75-112
95-47-6	o-Xylene	25	25.7	103	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	75-121%

Blank Spike Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG335-BS	G007692.D	1	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	95%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95240-8MS	G007697.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8MSD	G007698.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007695.D	25	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007696.D	250	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	T95240-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		31300	20500	66	21800	70	6	62-124/21
71-43-2	Benzene	ND		6250	6160	99	6020	96	2	76-118/16
108-86-1	Bromobenzene	ND		6250	6030	96	5640	90	7	72-110/12
74-97-5	Bromochloromethane	ND		6250	5430	87	5150	82	5	69-110/12
75-27-4	Bromodichloromethane	ND		6250	5910	95	5520	88	7	68-107/12
75-25-2	Bromoform	ND		6250	4380	70	4290	69	2	64-103/14
104-51-8	n-Butylbenzene	ND		6250	6420	103	6180	99	4	74-114/12
135-98-8	sec-Butylbenzene	ND		6250	6710	107	6370	102	5	76-118/12
98-06-6	tert-Butylbenzene	ND		6250	6630	106	6290	101	5	72-116/14
108-90-7	Chlorobenzene	ND		6250	6210	99	5900	94	5	74-111/11
75-00-3	Chloroethane	ND		6250	6590	105	6140	98	7	75-135/15
67-66-3	Chloroform	ND		6250	6190	99	5950	95	4	75-117/12
95-49-8	o-Chlorotoluene	ND		6250	6540	105	6070	97	7	74-113/12
106-43-4	p-Chlorotoluene	ND		6250	6470	104	6060	97	7	72-114/12
75-15-0	Carbon disulfide	ND		6250	7260	116	5850	94	22*	57-126/13
56-23-5	Carbon tetrachloride	ND		6250	6240	100	5780	92	8	75-125/12
75-34-3	1,1-Dichloroethane	398		6250	6640	100	6360	95	4	76-121/13
75-35-4	1,1-Dichloroethylene	2870		6250	9290	103	8930	97	4	71-128/19
563-58-6	1,1-Dichloropropene	ND		6250	6890	110	6650	106	4	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		6250	3850	62	3800	61	1	55-121/33
106-93-4	1,2-Dibromoethane	ND		6250	5220	84	4890	78	7	69-106/13
107-06-2	1,2-Dichloroethane	ND		6250	5600	90	5580	89	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		6250	6040	97	5870	94	3	71-113/12
142-28-9	1,3-Dichloropropane	ND		6250	5360	86	5190	83	3	69-106/12
594-20-7	2,2-Dichloropropane	ND		6250	6410	103	6210	99	3	68-130/14
124-48-1	Dibromochloromethane	ND		6250	5130	82	4800	77	7	69-104/12
75-71-8	Dichlorodifluoromethane	ND		6250	7600	122*	7260	116	5	28-120/21
156-59-2	cis-1,2-Dichloroethylene	4390		6250	10000	90	9480	81	5	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		6250	5510	88	5040	81	9	71-111/12
541-73-1	m-Dichlorobenzene	ND		6250	6330	101	6070	97	4	74-110/12
95-50-1	o-Dichlorobenzene	ND		6250	5920	95	5790	93	2	72-108/12
106-46-7	p-Dichlorobenzene	ND		6250	6070	97	5880	94	3	74-110/12
156-60-5	trans-1,2-Dichloroethylene	177		6250	6510	101	6280	98	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		6250	5560	89	5370	86	3	75-111/12
100-41-4	Ethylbenzene	ND		6250	6380	102	5990	96	6	75-112/12
591-78-6	2-Hexanone	ND		31300	21900	70	23000	74	5	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95240-8MS	G007697.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8MSD	G007698.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007695.D	25	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007696.D	250	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Compound	T95240-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		6250	5960	95	6230	100	4	72-123/17
98-82-8	Isopropylbenzene	ND		6250	7690	123	7170	115	7	75-123/12
99-87-6	p-Isopropyltoluene	ND		6250	6760	108	6450	103	5	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		31300	22300	71	23900	76	7	63-115/21
74-83-9	Methyl bromide	ND		6250	6440	103	6380	102	1	59-132/15
74-87-3	Methyl chloride	ND		6250	6050	97	5650	90	7	56-150/17
74-95-3	Methylene bromide	ND		6250	5490	88	5360	86	2	68-114/13
75-09-2	Methylene chloride	43.3	JB	6250	6110	97	6020	96	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		31300	27500	88	26900	86	2	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		6250	5030	80	5170	83	3	65-113/13
91-20-3	Naphthalene	ND		6250	3400	54	3820	61	12	53-127/34
103-65-1	n-Propylbenzene	ND		6250	6730	108	6270	100	7	74-115/12
100-42-5	Styrene	ND		6250	6330	101	6120	98	3	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		6250	5980	96	5420	87	10	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		6250	6700	107	6410	103	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		6250	4680	75	4730	76	1	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		6250	5310	85	5130	82	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		6250	3830	61	4420	71	14	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		6250	4770	76	4780	76	0	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		6250	4690	75	5150	82	9	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		6250	6220	100	5900	94	5	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		6250	6220	100	5950	95	4	74-115/12
127-18-4	Tetrachloroethylene	10700 [a]		6250	16600	94	15700	80	6	77-120/13
108-88-3	Toluene	7.7	J	6250	6330	101	6090	97	4	77-114/12
79-01-6	Trichloroethylene	5940 [a]		6250	11600	91	11100	83	4	74-117/12
75-69-4	Trichlorofluoromethane	ND		6250	7730	124	7140	114	8	64-132/18
75-01-4	Vinyl chloride	233		6250	5730	88	5430	83	5	64-121/19
1330-20-7	Xylene (total)	ND		18800	19200	102	18200	97	5	75-111/12
	m,p-Xylene	ND		12500	12800	102	12200	98	5	75-112/12
95-47-6	o-Xylene	ND		6250	6350	102	6000	96	6	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T95240-8	T95240-8	Limits
1868-53-7	Dibromofluoromethane	94%	96%	96%	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	91%	90%	88%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95386
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95240-8MS	G007697.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8MSD	G007698.D	250	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007695.D	25	12/22/11	AK	n/a	n/a	VG335
T95240-8	G007696.D	250	12/22/11	AK	n/a	n/a	VG335

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95386-1, T95386-2

CAS No.	Surrogate Recoveries	MS	MSD	T95240-8	T95240-8	Limits
2037-26-5	Toluene-D8	94%	94%	95%	94%	87-119%
460-00-4	4-Bromofluorobenzene	96%	95%	94%	94%	80-133%

(a) Result is from Run #2.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T95386
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	4.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27	0.16	<10
Cobalt	50	.15	.22		
Copper	20	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	-0.14	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	1.5	<20

Associated samples MP16412: T95386-1, T95386-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T95386
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			12/19/11					12/19/11	
Metal	T95389-1 Original	DUP	RPD	QC Limits	T95389-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	2.3	2.3	0.0	0-20	2.3	379	400	94.2	75-125
Cobalt	anr								
Copper	anr								
Iron									
Lead	8.0	8.4	4.9	0-20	8.0	382	400	93.5	75-125
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc	17.6	16.6	5.8	0-20	17.6	439	400	105.4	75-125

Associated samples MP16412: T95386-1, T95386-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T95386
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	T95389-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	2.3	387	400	96.2	2.1	20
Cobalt	anr					
Copper	anr					
Iron						
Lead	8.0	383	400	93.8	0.3	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc	17.6	446	400	107.1	1.6	20

Associated samples MP16412: T95386-1, T95386-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T95386
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	410	400	102.5	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	389	400	97.3	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	423	400	105.8	80-120

Associated samples MP16412: T95386-1, T95386-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T95386
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	T95389-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	2.31	3.87	67.5 (a)	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	8.04	5.97	25.7 (a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	17.6	26.5	50.4 (a)	0-10

Associated samples MP16412: T95386-1, T95386-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Gulf Coast ACCUTEST LABORATORIES

02/22/12

Technical Report for

United Technology Corporation

XDD/UT Collierville/031091

031091

Accutest Job Number: T95387

Sampling Date: 12/14/11

Report to:

Xpert Design and Diagnostics, LLC (XDD)

white@xdd-llc.com

ATTN: Matthew White

Total number of pages in report: **60**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-6) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Accutest LabLink@55450 15:12 22-Feb-2012

Sample Summary

United Technology Corporation

Job No: T95387

XDD/UT Collierville/031091
Project No: 031091

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T95387-1	12/14/11	10:50		12/15/11	AQ	Ground Water	MW31R
T95387-2	12/14/11	11:40		12/15/11	AQ	Ground Water	MW4
T95387-3	12/14/11	12:20		12/15/11	AQ	Ground Water	MW10
T95387-4	12/14/11	12:25		12/15/11	AQ	Ground Water	DUPLICATE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	T95387
Site:	XDD/UT Collierville/031091	**Report Date**	1/3/2012 7:25:21 PM

4 Samples were collected on 12/14/2011 and were received intact at Accutest on 12/15/2011 and properly preserved in 1 cooler at 3.9 Deg C. These Samples received an Accutest job number of T95387. A listing of the Laboratory Sample ID, Client Sample ID and date of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VK187

- All samples were analyzed within the recommended method holding time.
- Sample(s) T95375-11MS, T95375-11MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Methylene chloride are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Methylene chloride are outside control limits for sample T95375-11MSD. Probable cause due to sample matrix..
- Matrix Spike Duplicate Recovery(s) for Methylene chloride are outside control limits. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VK190

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T95379-1MS, T95379-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Chloroethane, Methylene chloride, Vinyl chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acetone, Benzene, Chloroethane, Vinyl chloride are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Methylene chloride are outside control limits for sample T95379-1MSD. Probable cause due to sample non-homogeneity.

Matrix AQ **Batch ID:** VZ3497

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T95375-5MS, T95375-5MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1-Dichloroethylene, Bromochloromethane, Bromodichloromethane, Carbon disulfide, Dichlorodifluoromethane are outside control limits. Recoveries biased high, only non-detect resutls reported.
- Matrix Spike Recovery(s) for 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1-Dichloropropene, 1,2-Dichloroethane, 4-Methyl-2-pentanone, Bromochloromethane, Bromodichloromethane, Carbon disulfide, Carbon tetrachloride, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dichlorodifluoromethane, Methylene bromide are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene, Bromochloromethane, Bromodichloromethane, Carbon disulfide, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP16412

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T95389-1DUP, T95389-1MS, T95389-1MSD, T95389-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead, Zinc are outside control limits for sample MP16412-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T95387-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K03741.D	1	12/17/11	EM	n/a	n/a	VK187
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.7	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T95387-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	2.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-122%
17060-07-0	1,2-Dichloroethane-D4	88%		75-121%
2037-26-5	Toluene-D8	95%		87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T95387-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		80-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31R		
Lab Sample ID:	T95387-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.7	3.0	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	87.4	20	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6366
(2) Prep QC Batch: MP16412

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T95387-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K03742.D	1	12/17/11	EM	n/a	n/a	VK187
Run #2	Z022757.D	50	12/19/11	AK	n/a	n/a	VZ3497

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.5	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2120 [a]	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T95387-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	17.6	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	2000 [a]	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	1.8	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	103%	75-121%
2037-26-5	Toluene-D8	94%	100%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T95387-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	98%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	T95387-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	20.9	3.0	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	3600	20	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6366
(2) Prep QC Batch: MP16412

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T95387-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z022755.D	20	12/19/11	AK	n/a	n/a	VZ3497
Run #2	Z022756.D	200	12/19/11	AK	n/a	n/a	VZ3497

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	20	ug/l	
108-86-1	Bromobenzene	ND	20	ug/l	
74-97-5	Bromochloromethane	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
104-51-8	n-Butylbenzene	ND	20	ug/l	
135-98-8	sec-Butylbenzene	ND	20	ug/l	
98-06-6	tert-Butylbenzene	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	20	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
95-49-8	o-Chlorotoluene	ND	20	ug/l	
106-43-4	p-Chlorotoluene	ND	20	ug/l	
75-15-0	Carbon disulfide	ND	20	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	98.1	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T95387-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	ug/l	
98-82-8	Isopropylbenzene	ND	20	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	200	ug/l	
74-83-9	Methyl bromide	ND	20	ug/l	
74-87-3	Methyl chloride	ND	20	ug/l	
74-95-3	Methylene bromide	ND	20	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	20	ug/l	
100-42-5	Styrene	ND	20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	20	ug/l	
127-18-4	Tetrachloroethylene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
79-01-6	Trichloroethylene	16600 [a]	200	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	ug/l	
75-01-4	Vinyl chloride	ND	20	ug/l	
1330-20-7	Xylene (total)	ND	60	ug/l	
	m,p-Xylene	ND	40	ug/l	
95-47-6	o-Xylene	ND	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	75-121%
2037-26-5	Toluene-D8	95%	98%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T95387-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	100%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10		
Lab Sample ID:	T95387-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	XDD/UT Collierville/031091		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	4.9	3.0	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/19/11	12/29/11	EG	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA6366
(2) Prep QC Batch: MP16412

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T95387-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K03826.D	20	12/20/11	EM	n/a	n/a	VK190
Run #2	Z022758.D	100	12/19/11	AK	n/a	n/a	VZ3497

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	20	ug/l	
108-86-1	Bromobenzene	ND	20	ug/l	
74-97-5	Bromochloromethane	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
104-51-8	n-Butylbenzene	ND	20	ug/l	
135-98-8	sec-Butylbenzene	ND	20	ug/l	
98-06-6	tert-Butylbenzene	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	20	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
95-49-8	o-Chlorotoluene	ND	20	ug/l	
106-43-4	p-Chlorotoluene	ND	20	ug/l	
75-15-0	Carbon disulfide	ND	20	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	87.2	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T95387-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	ug/l	
98-82-8	Isopropylbenzene	ND	20	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	200	ug/l	
74-83-9	Methyl bromide	ND	20	ug/l	
74-87-3	Methyl chloride	ND	20	ug/l	
74-95-3	Methylene bromide	ND	20	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	20	ug/l	
100-42-5	Styrene	ND	20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	20	ug/l	
127-18-4	Tetrachloroethylene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
79-01-6	Trichloroethylene	18800 [a]	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	ug/l	
75-01-4	Vinyl chloride	ND	20	ug/l	
1330-20-7	Xylene (total)	ND	60	ug/l	
	m,p-Xylene	ND	40	ug/l	
95-47-6	o-Xylene	ND	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	103%	75-121%
2037-26-5	Toluene-D8	91%	100%	87-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T95387-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	XDD/UT Collierville/031091		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	100%	80-133%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T95387

Client / Reporting Information

Company Name: SAS ENVIRONMENTAL INC
Street Address: 1486 MEDINA ROAD SUITE 201
City: MEDINA State: OH Zip: 44256
Project Contact: MARK V. ALLEN E-mail: mallen@SASENVIRONMENTAL.com
Phone #: 330 239 9800 Fax #: 330 239 9983
Sampler(s) Name(s): FRANK O'CONNELL Phone #: 330 239 9800

Project Information

Project Name: VT Colliersville
Street: 97 S. BYHALIA ROAD
City: Colliersville State: TN
Project #: 031091
Client Purchase Order #: Bill to XDD
Project Manager: MARK VALLEN
Attention: Bruce Cline

Billing Information (if different from Report to)

Company Name: XDD-LLC
Street Address: 22 MARIN WAY UNIT 3
City: STRATHAM State: NH Zip: 03885

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VOC 8260	CORR/ZINC	LAB USE ONLY
1	MW 31R	12-14-11	1050	JFO	GW	4	3			1									X	X	
2	MW 4	12-14-11	1140	JFO	GW	4	3			1									X	X	
3	MW 10	12-14-11	1220	JFO	GW	4	3			1									X	X	
4	DUPLICATE	12-14-11	1225	JFO	GW	3	3												X		

JFO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LOG IN UNDER VT
STANDARD TAT / NOTE NEW SAS ADDRESS
EMAIL RESULTS TO JFOX@aol.com
Bill to XDD-LLC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12-14-11/1650	1 FEDEX	2 FEDEX	12-14-11/1650	2 [signature] 12/15/11
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice: X Cooler Temp. 2.0 °C

T95387: Chain of Custody
Page 1 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T95387 **Client:** SAS ENVIRONMENTAL INC **Project:** UT COLLERVILLE

Date / Time Received: 12/15/2011 **Delivery Method:** **Airbill #'s:** 870986197129

No. Coolers: **Therm ID:** **Temp Adjustment Factor:**

Cooler Temps (Initial/Adjusted): #1: (4/3.9);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:		

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments RECEIVED TRIP BLANK BUT NOT ON COC.

Accutest Laboratories
V:713.271.4700
10165 Harwin Drive
F: 713.271.4770
Houston, TX 77036
www.accutest.com

ACCUTEST LABORATORIES

Problem Resolution

Accutest Job Number: T95387

CSR: Sylvia Garza

Response Date: 12/15/2011

Response: Place on HOLD historically per client.

Sample Receipt Log

Job #: T95387 **Date / Time Received:** 12/15/2011 9:40:00 AM **Initials:** EC

Client: SAS ENVIRONMENTAL INC

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T95387-1	500 ml	1	M2E	HNO3	pH < 2	IRGUN4	4	-0.1	3.9
1	T95387-1	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-1	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-1	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-2	500 ml	1	M2E	HNO3	pH < 2	IRGUN4	4	-0.1	3.9
1	T95387-2	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-2	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-2	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-3	500 ml	1	M2E	HNO3	pH < 2	IRGUN4	4	-0.1	3.9
1	T95387-3	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-3	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-3	40 ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-4	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-4	40 ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-4	40 ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9
1	T95387-5	40 ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4	-0.1	3.9

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-MB	K03721.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-MB	K03721.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	79-122%
17060-07-0	1,2-Dichloroethane-D4	84%	75-121%

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-MB	K03721.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-MB	Z022743.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-MB	Z022743.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-MB	Z022743.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-MB	K03805.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-MB	K03805.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	79-122%
17060-07-0	1,2-Dichloroethane-D4	83%	75-121%
2037-26-5	Toluene-D8	92%	87-119%

Method Blank Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-MB	K03805.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	110%	80-133%

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-BS	K03719.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	93.8	75	62-124
71-43-2	Benzene	25	22.6	90	76-118
108-86-1	Bromobenzene	25	24.1	96	72-110
74-97-5	Bromochloromethane	25	21.9	88	69-110
75-27-4	Bromodichloromethane	25	22.0	88	68-107
75-25-2	Bromoform	25	23.0	92	64-103
104-51-8	n-Butylbenzene	25	22.3	89	74-114
135-98-8	sec-Butylbenzene	25	24.3	97	76-118
98-06-6	tert-Butylbenzene	25	24.6	98	72-116
108-90-7	Chlorobenzene	25	23.0	92	74-111
75-00-3	Chloroethane	25	21.2	85	75-135
67-66-3	Chloroform	25	21.7	87	75-117
95-49-8	o-Chlorotoluene	25	24.2	97	74-113
106-43-4	p-Chlorotoluene	25	23.8	95	72-114
75-15-0	Carbon disulfide	25	19.9	80	57-126
56-23-5	Carbon tetrachloride	25	24.0	96	75-125
75-34-3	1,1-Dichloroethane	25	23.3	93	76-121
75-35-4	1,1-Dichloroethylene	25	21.9	88	71-128
563-58-6	1,1-Dichloropropene	25	23.5	94	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	26.1	104	55-121
106-93-4	1,2-Dibromoethane	25	23.4	94	69-106
107-06-2	1,2-Dichloroethane	25	21.8	87	70-111
78-87-5	1,2-Dichloropropane	25	22.3	89	71-113
142-28-9	1,3-Dichloropropane	25	22.6	90	69-106
594-20-7	2,2-Dichloropropane	25	24.2	97	68-130
124-48-1	Dibromochloromethane	25	23.0	92	69-104
75-71-8	Dichlorodifluoromethane	25	26.2	105	28-120
156-59-2	cis-1,2-Dichloroethylene	25	22.5	90	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.4	90	71-111
541-73-1	m-Dichlorobenzene	25	24.3	97	74-110
95-50-1	o-Dichlorobenzene	25	23.7	95	72-108
106-46-7	p-Dichlorobenzene	25	23.0	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	23.3	93	70-125
10061-02-6	trans-1,3-Dichloropropene	25	25.1	100	75-111
100-41-4	Ethylbenzene	25	23.4	94	75-112
591-78-6	2-Hexanone	125	111	89	60-113

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-BS	K03719.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	25.1	100	72-123
98-82-8	Isopropylbenzene	25	29.0	116	75-123
99-87-6	p-Isopropyltoluene	25	24.8	99	76-116
108-10-1	4-Methyl-2-pentanone	125	103	82	63-115
74-83-9	Methyl bromide	25	20.2	81	59-132
74-87-3	Methyl chloride	25	21.7	87	56-150
74-95-3	Methylene bromide	25	20.9	84	68-114
75-09-2	Methylene chloride	25	22.2	89	70-113
78-93-3	Methyl ethyl ketone	125	113	90	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	65-113
91-20-3	Naphthalene	25	24.1	96	53-127
103-65-1	n-Propylbenzene	25	24.2	97	74-115
100-42-5	Styrene	25	22.7	91	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	23.0	92	72-108
71-55-6	1,1,1-Trichloroethane	25	23.6	94	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	67-110
79-00-5	1,1,2-Trichloroethane	25	22.9	92	69-107
87-61-6	1,2,3-Trichlorobenzene	25	25.6	102	51-128
96-18-4	1,2,3-Trichloropropane	25	24.2	97	55-116
120-82-1	1,2,4-Trichlorobenzene	25	26.0	104	63-114
95-63-6	1,2,4-Trimethylbenzene	25	23.7	95	73-111
108-67-8	1,3,5-Trimethylbenzene	25	23.2	93	74-115
127-18-4	Tetrachloroethylene	25	26.6	106	77-120
108-88-3	Toluene	25	23.2	93	77-114
79-01-6	Trichloroethylene	25	23.2	93	74-117
75-69-4	Trichlorofluoromethane	25	21.8	87	64-132
75-01-4	Vinyl chloride	25	17.7	71	64-121
1330-20-7	Xylene (total)	75	68.8	92	75-111
	m,p-Xylene	50	46.0	92	75-112
95-47-6	o-Xylene	25	22.8	91	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	79-122%
17060-07-0	1,2-Dichloroethane-D4	84%	75-121%

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK187-BS	K03719.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	109%	80-133%

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-BS	Z022741.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	141	113	62-124
71-43-2	Benzene	25	27.7	111	76-118
108-86-1	Bromobenzene	25	22.5	90	72-110
74-97-5	Bromochloromethane	25	28.2	113* [a]	69-110
75-27-4	Bromodichloromethane	25	27.1	108* [a]	68-107
75-25-2	Bromoform	25	24.1	96	64-103
104-51-8	n-Butylbenzene	25	24.0	96	74-114
135-98-8	sec-Butylbenzene	25	24.0	96	76-118
98-06-6	tert-Butylbenzene	25	23.4	94	72-116
108-90-7	Chlorobenzene	25	24.0	96	74-111
75-00-3	Chloroethane	25	28.8	115	75-135
67-66-3	Chloroform	25	27.2	109	75-117
95-49-8	o-Chlorotoluene	25	22.8	91	74-113
106-43-4	p-Chlorotoluene	25	23.3	93	72-114
75-15-0	Carbon disulfide	25	33.7	135* [a]	57-126
56-23-5	Carbon tetrachloride	25	30.4	122	75-125
75-34-3	1,1-Dichloroethane	25	29.1	116	76-121
75-35-4	1,1-Dichloroethylene	25	33.2	133* [a]	71-128
563-58-6	1,1-Dichloropropene	25	29.8	119	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	24.1	96	55-121
106-93-4	1,2-Dibromoethane	25	23.6	94	69-106
107-06-2	1,2-Dichloroethane	25	26.9	108	70-111
78-87-5	1,2-Dichloropropane	25	27.2	109	71-113
142-28-9	1,3-Dichloropropane	25	23.2	93	69-106
594-20-7	2,2-Dichloropropane	25	28.6	114	68-130
124-48-1	Dibromochloromethane	25	23.5	94	69-104
75-71-8	Dichlorodifluoromethane	25	32.6	130* [a]	28-120
156-59-2	cis-1,2-Dichloroethylene	25	27.7	111	68-113
10061-01-5	cis-1,3-Dichloropropene	25	27.6	110	71-111
541-73-1	m-Dichlorobenzene	25	23.2	93	74-110
95-50-1	o-Dichlorobenzene	25	22.7	91	72-108
106-46-7	p-Dichlorobenzene	25	22.9	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	30.2	121	70-125
10061-02-6	trans-1,3-Dichloropropene	25	26.1	104	75-111
100-41-4	Ethylbenzene	25	24.2	97	75-112
591-78-6	2-Hexanone	125	120	96	60-113

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-BS	Z022741.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	27.4	110	72-123
98-82-8	Isopropylbenzene	25	27.8	111	75-123
99-87-6	p-Isopropyltoluene	25	24.5	98	76-116
108-10-1	4-Methyl-2-pentanone	125	136	109	63-115
74-83-9	Methyl bromide	25	30.8	123	59-132
74-87-3	Methyl chloride	25	29.0	116	56-150
74-95-3	Methylene bromide	25	27.5	110	68-114
75-09-2	Methylene chloride	25	26.0	104	70-113
78-93-3	Methyl ethyl ketone	125	138	110	62-117
1634-04-4	Methyl Tert Butyl Ether	25	27.2	109	65-113
91-20-3	Naphthalene	25	23.4	94	53-127
103-65-1	n-Propylbenzene	25	23.8	95	74-115
100-42-5	Styrene	25	24.5	98	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	24.0	96	72-108
71-55-6	1,1,1-Trichloroethane	25	29.5	118	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	22.4	90	67-110
79-00-5	1,1,2-Trichloroethane	25	23.2	93	69-107
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	51-128
96-18-4	1,2,3-Trichloropropane	25	24.7	99	55-116
120-82-1	1,2,4-Trichlorobenzene	25	23.4	94	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.7	91	73-111
108-67-8	1,3,5-Trimethylbenzene	25	22.6	90	74-115
127-18-4	Tetrachloroethylene	25	27.8	111	77-120
108-88-3	Toluene	25	24.6	98	77-114
79-01-6	Trichloroethylene	25	27.3	109	74-117
75-69-4	Trichlorofluoromethane	25	27.2	109	64-132
75-01-4	Vinyl chloride	25	24.3	97	64-121
1330-20-7	Xylene (total)	75	73.3	98	75-111
	m,p-Xylene	50	48.8	98	75-112
95-47-6	o-Xylene	25	24.5	98	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	75-121%

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3497-BS	Z022741.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	97%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-BS	K03803.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	92.4	74	62-124
71-43-2	Benzene	25	21.9	88	76-118
108-86-1	Bromobenzene	25	23.6	94	72-110
74-97-5	Bromochloromethane	25	22.0	88	69-110
75-27-4	Bromodichloromethane	25	21.9	88	68-107
75-25-2	Bromoform	25	22.2	89	64-103
104-51-8	n-Butylbenzene	25	22.3	89	74-114
135-98-8	sec-Butylbenzene	25	24.6	98	76-118
98-06-6	tert-Butylbenzene	25	23.9	96	72-116
108-90-7	Chlorobenzene	25	23.0	92	74-111
75-00-3	Chloroethane	25	19.8	79	75-135
67-66-3	Chloroform	25	21.6	86	75-117
95-49-8	o-Chlorotoluene	25	24.0	96	74-113
106-43-4	p-Chlorotoluene	25	23.5	94	72-114
75-15-0	Carbon disulfide	25	21.0	84	57-126
56-23-5	Carbon tetrachloride	25	24.3	97	75-125
75-34-3	1,1-Dichloroethane	25	22.7	91	76-121
75-35-4	1,1-Dichloroethylene	25	22.9	92	71-128
563-58-6	1,1-Dichloropropene	25	23.3	93	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	24.2	97	55-121
106-93-4	1,2-Dibromoethane	25	23.0	92	69-106
107-06-2	1,2-Dichloroethane	25	21.9	88	70-111
78-87-5	1,2-Dichloropropane	25	21.7	87	71-113
142-28-9	1,3-Dichloropropane	25	22.5	90	69-106
594-20-7	2,2-Dichloropropane	25	24.1	96	68-130
124-48-1	Dibromochloromethane	25	22.9	92	69-104
75-71-8	Dichlorodifluoromethane	25	27.6	110	28-120
156-59-2	cis-1,2-Dichloroethylene	25	21.9	88	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.1	88	71-111
541-73-1	m-Dichlorobenzene	25	24.1	96	74-110
95-50-1	o-Dichlorobenzene	25	23.5	94	72-108
106-46-7	p-Dichlorobenzene	25	23.0	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	22.9	92	70-125
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	75-111
100-41-4	Ethylbenzene	25	23.4	94	75-112
591-78-6	2-Hexanone	125	106	85	60-113

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-BS	K03803.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	27.7	111	72-123
98-82-8	Isopropylbenzene	25	28.1	112	75-123
99-87-6	p-Isopropyltoluene	25	24.6	98	76-116
108-10-1	4-Methyl-2-pentanone	125	97.2	78	63-115
74-83-9	Methyl bromide	25	19.2	77	59-132
74-87-3	Methyl chloride	25	22.3	89	56-150
74-95-3	Methylene bromide	25	20.9	84	68-114
75-09-2	Methylene chloride	25	19.7	79	70-113
78-93-3	Methyl ethyl ketone	125	109	87	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.5	86	65-113
91-20-3	Naphthalene	25	24.0	96	53-127
103-65-1	n-Propylbenzene	25	24.2	97	74-115
100-42-5	Styrene	25	22.8	91	76-110
630-20-6	1,1,1,2-Tetrachloroethane	25	23.3	93	72-108
71-55-6	1,1,1-Trichloroethane	25	23.7	95	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	21.8	87	67-110
79-00-5	1,1,2-Trichloroethane	25	22.4	90	69-107
87-61-6	1,2,3-Trichlorobenzene	25	26.6	106	51-128
96-18-4	1,2,3-Trichloropropane	25	23.7	95	55-116
120-82-1	1,2,4-Trichlorobenzene	25	26.2	105	63-114
95-63-6	1,2,4-Trimethylbenzene	25	23.6	94	73-111
108-67-8	1,3,5-Trimethylbenzene	25	23.3	93	74-115
127-18-4	Tetrachloroethylene	25	26.9	108	77-120
108-88-3	Toluene	25	23.2	93	77-114
75-69-4	Trichlorofluoromethane	25	21.2	85	64-132
75-01-4	Vinyl chloride	25	17.9	72	64-121
1330-20-7	Xylene (total)	75	68.9	92	75-111
	m,p-Xylene	50	45.9	92	75-112
95-47-6	o-Xylene	25	23.0	92	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	79-122%
17060-07-0	1,2-Dichloroethane-D4	84%	75-121%
2037-26-5	Toluene-D8	93%	87-119%

Blank Spike Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK190-BS	K03803.D	1	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	107%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-11MS	K03726.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11MSD	K03727.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11 [a]	K03725.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	T95375-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	85.9	69	89.9	72	5	62-124/21
71-43-2	Benzene	ND		25	22.1	88	21.6	86	2	76-118/16
108-86-1	Bromobenzene	ND		25	23.4	94	23.5	94	0	72-110/12
74-97-5	Bromochloromethane	ND		25	21.6	86	21.3	85	1	69-110/12
75-27-4	Bromodichloromethane	ND		25	21.8	87	21.1	84	3	68-107/12
75-25-2	Bromoform	ND		25	22.6	90	23.0	92	2	64-103/14
104-51-8	n-Butylbenzene	ND		25	21.0	84	20.4	82	3	74-114/12
135-98-8	sec-Butylbenzene	ND		25	23.3	93	22.4	90	4	76-118/12
98-06-6	tert-Butylbenzene	ND		25	23.6	94	22.9	92	3	72-116/14
108-90-7	Chlorobenzene	ND		25	22.7	91	21.8	87	4	74-111/11
75-00-3	Chloroethane	ND		25	20.7	83	20.0	80	3	75-135/15
67-66-3	Chloroform	ND		25	21.6	86	20.8	83	4	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.4	94	23.3	93	0	74-113/12
106-43-4	p-Chlorotoluene	ND		25	22.9	92	22.6	90	1	72-114/12
75-15-0	Carbon disulfide	ND		25	20.4	82	19.7	79	3	57-126/13
56-23-5	Carbon tetrachloride	ND		25	23.8	95	21.9	88	8	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	22.6	90	21.8	87	4	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	22.5	90	20.7	83	8	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	22.9	92	21.7	87	5	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	23.9	96	26.5	106	10	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	22.8	91	22.8	91	0	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	21.7	87	21.5	86	1	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	22.1	88	20.9	84	6	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	22.7	91	22.6	90	0	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	22.7	91	21.1	84	7	68-130/14
124-48-1	Dibromochloromethane	ND		25	23.1	92	22.3	89	4	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	25.9	104	22.1	88	16	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.0	88	21.2	85	4	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.9	88	21.6	86	1	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	23.4	94	23.4	94	0	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	22.9	92	23.0	92	0	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	22.3	89	22.5	90	1	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.6	90	21.7	87	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.4	98	24.5	98	0	75-111/12
100-41-4	Ethylbenzene	ND		25	22.9	92	22.2	89	3	75-112/12
591-78-6	2-Hexanone	ND		125	105	84	111	89	6	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-11MS	K03726.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11MSD	K03727.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11 [a]	K03725.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Compound	T95375-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	23.5	94	23.4	94	0	72-123/17
98-82-8	Isopropylbenzene	ND		25	27.4	110	27.0	108	1	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	23.1	92	22.9	92	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	101	81	105	84	4	63-115/21
74-83-9	Methyl bromide	ND		25	19.4	78	18.3	73	6	59-132/15
74-87-3	Methyl chloride	ND		25	20.5	82	19.8	79	3	56-150/17
74-95-3	Methylene bromide	ND		25	20.6	82	21.1	84	2	68-114/13
75-09-2	Methylene chloride	ND		25	9.2	37*	5.7	23*	47*	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	104	83	114	91	9	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.4	86	21.3	85	0	65-113/13
91-20-3	Naphthalene	ND		25	23.5	94	25.7	103	9	53-127/34
103-65-1	n-Propylbenzene	ND		25	23.3	93	22.9	92	2	74-115/12
100-42-5	Styrene	ND		25	22.1	88	21.7	87	2	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	22.9	92	23.0	92	0	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.5	94	22.3	89	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.3	89	23.4	94	5	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	22.5	90	22.5	90	0	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.3	101	26.9	108	6	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	23.0	92	24.5	98	6	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.8	99	25.5	102	3	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	22.8	91	22.7	91	0	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	22.1	88	21.8	87	1	74-115/12
127-18-4	Tetrachloroethylene	ND		25	26.2	105	24.6	98	6	77-120/13
108-88-3	Toluene	ND		25	22.9	92	22.5	90	2	77-114/12
79-01-6	Trichloroethylene	ND		25	22.9	92	22.3	89	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	17.7	71	16.6	66	6	64-132/18
75-01-4	Vinyl chloride	ND		25	17.3	69	16.5	66	5	64-121/19
1330-20-7	Xylene (total)	ND		75	67.8	90	65.7	88	3	75-111/12
	m,p-Xylene	ND		50	45.2	90	44.0	88	3	75-112/12
95-47-6	o-Xylene	ND		25	22.6	90	21.7	87	4	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T95375-11	Limits
1868-53-7	Dibromofluoromethane	88%	87%	86%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	86%	86%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-11MS	K03726.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11MSD	K03727.D	1	12/16/11	EM	n/a	n/a	VK187
T95375-11 [a]	K03725.D	1	12/16/11	EM	n/a	n/a	VK187

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-1, T95387-2

CAS No.	Surrogate Recoveries	MS	MSD	T95375-11	Limits
2037-26-5	Toluene-D8	95%	95%	95%	87-119%
460-00-4	4-Bromofluorobenzene	108%	108%	107%	80-133%

(a) Sample was not preserved to a pH < 2

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-5MS	Z022747.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5MSD	Z022748.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5 [a]	Z022746.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	T95375-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	146	117	137	110	6	62-124/21
71-43-2	Benzene	ND		25	28.8	115	28.2	113	2	76-118/16
108-86-1	Bromobenzene	ND		25	23.5	94	22.9	92	3	72-110/12
74-97-5	Bromochloromethane	ND		25	28.8	115*	29.6	118*	3	69-110/12
75-27-4	Bromodichloromethane	ND		25	26.9	108*	27.4	110*	2	68-107/12
75-25-2	Bromoform	ND		25	24.7	99	24.2	97	2	64-103/14
104-51-8	n-Butylbenzene	ND		25	25.1	100	23.9	96	5	74-114/12
135-98-8	sec-Butylbenzene	ND		25	24.9	100	23.8	95	5	76-118/12
98-06-6	tert-Butylbenzene	ND		25	25.1	100	23.5	94	7	72-116/14
108-90-7	Chlorobenzene	ND		25	25.2	101	24.8	99	2	74-111/11
75-00-3	Chloroethane	ND		25	29.2	117	28.3	113	3	75-135/15
67-66-3	Chloroform	ND		25	27.8	111	27.4	110	1	75-117/12
95-49-8	o-Chlorotoluene	ND		25	23.8	95	23.0	92	3	74-113/12
106-43-4	p-Chlorotoluene	ND		25	24.3	97	23.6	94	3	72-114/12
75-15-0	Carbon disulfide	ND		25	35.1	140*	32.9	132*	6	57-126/13
56-23-5	Carbon tetrachloride	ND		25	31.5	126*	29.7	119	6	75-125/12
75-34-3	1,1-Dichloroethane	0.70	J	25	31.3	122*	29.9	117	5	76-121/13
75-35-4	1,1-Dichloroethylene	1.4		25	35.6	137*	34.3	132*	4	71-128/19
563-58-6	1,1-Dichloropropene	ND		25	30.9	124*	29.4	118	5	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.0	100	24.3	97	3	55-121/33
106-93-4	1,2-Dibromoethane	ND		25	25.0	100	24.0	96	4	69-106/13
107-06-2	1,2-Dichloroethane	ND		25	28.2	113*	27.3	109	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	28.2	113	27.5	110	3	71-113/12
142-28-9	1,3-Dichloropropane	ND		25	24.3	97	23.7	95	3	69-106/12
594-20-7	2,2-Dichloropropane	ND		25	30.6	122	30.0	120	2	68-130/14
124-48-1	Dibromochloromethane	ND		25	24.8	99	24.1	96	3	69-104/12
75-71-8	Dichlorodifluoromethane	ND		25	32.5	130*	28.8	115	12	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	29.1	116*	28.8	115*	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	28.3	113*	28.7	115*	1	71-111/12
541-73-1	m-Dichlorobenzene	ND		25	24.3	97	23.7	95	3	74-110/12
95-50-1	o-Dichlorobenzene	ND		25	23.8	95	23.2	93	3	72-108/12
106-46-7	p-Dichlorobenzene	ND		25	23.8	95	23.1	92	3	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	31.2	125	31.0	124	1	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.0	108	26.6	106	1	75-111/12
100-41-4	Ethylbenzene	ND		25	25.2	101	24.4	98	3	75-112/12
591-78-6	2-Hexanone	ND		125	128	102	122	98	5	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-5MS	Z022747.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5MSD	Z022748.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5 [a]	Z022746.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Compound	T95375-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		25	27.4	110	25.6	102	7	72-123/17
98-82-8	Isopropylbenzene	ND		25	28.9	116	27.6	110	5	75-123/12
99-87-6	p-Isopropyltoluene	ND		25	25.8	103	24.7	99	4	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		125	149	119*	141	113	6	63-115/21
74-83-9	Methyl bromide	ND		25	29.8	119	28.4	114	5	59-132/15
74-87-3	Methyl chloride	ND		25	28.4	114	27.7	111	2	56-150/17
74-95-3	Methylene bromide	ND		25	28.9	116*	28.1	112	3	68-114/13
75-09-2	Methylene chloride	ND		25	27.8	111	26.6	106	4	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	143	114	138	110	4	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	27.8	111	27.2	109	2	65-113/13
91-20-3	Naphthalene	ND		25	22.6	90	22.0	88	3	53-127/34
103-65-1	n-Propylbenzene	ND		25	24.9	100	24.0	96	4	74-115/12
100-42-5	Styrene	ND		25	25.2	101	25.2	101	0	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.9	100	24.7	99	1	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		25	30.5	122	29.0	116	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.4	94	22.5	90	4	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.0	100	24.3	97	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	23.5	94	23.0	92	2	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		25	26.1	104	23.3	93	11	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		25	23.6	94	22.9	92	3	63-114/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.9	96	22.8	91	5	73-111/13
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.6	94	22.8	91	3	74-115/12
127-18-4	Tetrachloroethylene	ND		25	28.9	116	27.5	110	5	77-120/13
108-88-3	Toluene	ND		25	25.9	104	24.9	100	4	77-114/12
79-01-6	Trichloroethylene	ND		25	28.4	114	27.5	110	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		25	28.3	113	25.2	101	12	64-132/18
75-01-4	Vinyl chloride	0.68	J	25	25.1	98	23.2	90	8	64-121/19
1330-20-7	Xylene (total)	ND		75	76.1	101	74.3	99	2	75-111/12
	m,p-Xylene	ND		50	50.7	101	49.3	99	3	75-112/12
95-47-6	o-Xylene	ND		25	25.4	102	25.0	100	2	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T95375-5	Limits
1868-53-7	Dibromofluoromethane	107%	106%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	103%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95375-5MS	Z022747.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5MSD	Z022748.D	1	12/19/11	AK	n/a	n/a	VZ3497
T95375-5 [a]	Z022746.D	1	12/19/11	AK	n/a	n/a	VZ3497

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-2, T95387-3, T95387-4

CAS No.	Surrogate Recoveries	MS	MSD	T95375-5	Limits
2037-26-5	Toluene-D8	97%	97%	99%	87-119%
460-00-4	4-Bromofluorobenzene	96%	95%	101%	80-133%

(a) Sample was not preserved to a pH < 2

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95379-1MS	K03808.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1MSD	K03809.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03806.D	1	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03807.D	10	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	T95379-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	79.7		1250	862	63	848	61*	2	62-124/21
71-43-2	Benzene	146		250	346	80	334	75*	4	76-118/16
108-86-1	Bromobenzene	1.0 U		250	219	88	220	88	0	72-110/12
74-97-5	Bromochloromethane	1.0 U		250	211	84	205	82	3	69-110/12
75-27-4	Bromodichloromethane	1.0 U		250	207	83	203	81	2	68-107/12
75-25-2	Bromoform	1.0 U		250	214	86	207	83	3	64-103/14
104-51-8	n-Butylbenzene	26.0		250	230	82	219	77	5	74-114/12
135-98-8	sec-Butylbenzene	19.1		250	242	89	233	86	4	76-118/12
98-06-6	tert-Butylbenzene	1.4		250	231	92	221	88	4	72-116/14
108-90-7	Chlorobenzene	1.0 U		250	211	84	207	83	2	74-111/11
75-00-3	Chloroethane	1.0 U		250	175	70*	166	66*	5	75-135/15
67-66-3	Chloroform	0.82	J	250	205	82	197	78	4	75-117/12
95-49-8	o-Chlorotoluene	13.1		250	235	89	231	87	2	74-113/12
106-43-4	p-Chlorotoluene	1.0 U		250	219	88	215	86	2	72-114/12
75-15-0	Carbon disulfide	1.0 U		250	192	77	176	70	9	57-126/13
56-23-5	Carbon tetrachloride	1.0 U		250	223	89	209	84	6	75-125/12
75-34-3	1,1-Dichloroethane	1.0 U		250	216	86	209	84	3	76-121/13
75-35-4	1,1-Dichloroethylene	1.0 U		250	245	98	226	90	8	71-128/19
563-58-6	1,1-Dichloropropene	1.0 U		250	218	87	203	81	7	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		250	242	97	231	92	5	55-121/33
106-93-4	1,2-Dibromoethane	1.0 U		250	211	84	208	83	1	69-106/13
107-06-2	1,2-Dichloroethane	1.0 U		250	211	84	207	83	2	70-111/14
78-87-5	1,2-Dichloropropane	1.0 U		250	211	84	199	80	6	71-113/12
142-28-9	1,3-Dichloropropane	1.0 U		250	209	84	208	83	0	69-106/12
594-20-7	2,2-Dichloropropane	1.0 U		250	225	90	216	86	4	68-130/14
124-48-1	Dibromochloromethane	1.0 U		250	210	84	208	83	1	69-104/12
75-71-8	Dichlorodifluoromethane	2.0 U		250	239	96	203	81	16	28-120/21
156-59-2	cis-1,2-Dichloroethylene	1.0 U		250	210	84	203	81	3	68-113/13
10061-01-5	cis-1,3-Dichloropropene	1.0 U		250	207	83	202	81	2	71-111/12
541-73-1	m-Dichlorobenzene	1.0 U		250	225	90	219	88	3	74-110/12
95-50-1	o-Dichlorobenzene	1.0 U		250	219	88	214	86	2	72-108/12
106-46-7	p-Dichlorobenzene	1.0 U		250	213	85	210	84	1	74-110/12
156-60-5	trans-1,2-Dichloroethylene	1.0 U		250	210	84	202	81	4	70-125/14
10061-02-6	trans-1,3-Dichloropropene	1.0 U		250	231	92	226	90	2	75-111/12
100-41-4	Ethylbenzene	1.6		250	216	86	207	82	4	75-112/12
591-78-6	2-Hexanone	10 U		1250	981	78	952	76	3	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95379-1MS	K03808.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1MSD	K03809.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03806.D	1	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03807.D	10	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Compound	T95379-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	1.0 U		250	228	91	230	92	1	72-123/17
98-82-8	Isopropylbenzene	118		250	374	102	361	97	4	75-123/12
99-87-6	p-Isopropyltoluene	1.0 U		250	227	91	220	88	3	76-116/12
108-10-1	4-Methyl-2-pentanone	10 U		1250	939	75	911	73	3	63-115/21
74-83-9	Methyl bromide	1.0 U		250	171	68	157	63	9	59-132/15
74-87-3	Methyl chloride	1.0 U		250	185	74	186	74	1	56-150/17
74-95-3	Methylene bromide	1.0 U		250	199	80	190	76	5	68-114/13
75-09-2	Methylene chloride	5.0 U		250	85.3	34*	176	70	69*	70-113/13
78-93-3	Methyl ethyl ketone	10 U		1250	994	80	980	78	1	62-117/21
1634-04-4	Methyl Tert Butyl Ether	26.0		250	227	80	221	78	3	65-113/13
91-20-3	Naphthalene	10.7		250	229	87	232	89	1	53-127/34
103-65-1	n-Propylbenzene	220 [a]		250	431	80	421	76	2	74-115/12
100-42-5	Styrene	1.0 U		250	207	83	204	82	1	76-110/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		250	213	85	208	83	2	72-108/11
71-55-6	1,1,1-Trichloroethane	1.0 U		250	224	90	211	84	6	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		250	211	84	208	83	1	67-110/20
79-00-5	1,1,2-Trichloroethane	1.0 U		250	208	83	206	82	1	69-107/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		250	240	96	236	94	2	51-128/31
96-18-4	1,2,3-Trichloropropane	1.0 U		250	216	86	218	87	1	55-116/27
120-82-1	1,2,4-Trichlorobenzene	1.0 U		250	237	95	232	93	2	63-114/21
95-63-6	1,2,4-Trimethylbenzene	0.55	J	250	220	88	215	86	2	73-111/13
108-67-8	1,3,5-Trimethylbenzene	1.0 U		250	213	85	207	83	3	74-115/12
127-18-4	Tetrachloroethylene	1.0 U		250	245	98	237	95	3	77-120/13
108-88-3	Toluene	1.6		250	215	85	210	83	2	77-114/12
75-69-4	Trichlorofluoromethane	1.0 U		250	185	74	166	66	11	64-132/18
75-01-4	Vinyl chloride	1.0 U		250	157	63*	142	57*	10	64-121/19
1330-20-7	Xylene (total)	6.9		750	643	85	625	82	3	75-111/12
	m,p-Xylene	2.2		500	426	85	414	82	3	75-112/12
95-47-6	o-Xylene	4.7		250	217	85	211	83	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T95379-1	T95379-1	Limits
1868-53-7	Dibromofluoromethane	87%	87%	87%	85%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	85%	85%	83%	75-121%
2037-26-5	Toluene-D8	92%	93%	91%	93%	87-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T95387
Account: UTCCTEH United Technology Corporation
Project: XDD/UT Collierville/031091

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T95379-1MS	K03808.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1MSD	K03809.D	10	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03806.D	1	12/20/11	EM	n/a	n/a	VK190
T95379-1	K03807.D	10	12/20/11	EM	n/a	n/a	VK190

The QC reported here applies to the following samples: **Method:** SW846 8260B

T95387-4

CAS No.	Surrogate Recoveries	MS	MSD	T95379-1	T95379-1	Limits
460-00-4	4-Bromofluorobenzene	110%	111%	110%	110%	80-133%

(a) Result is from Run #2.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T95387
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	4.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	20	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8	-0.14	<3.0
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5	1.5	<20

Associated samples MP16412: T95387-1, T95387-2, T95387-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T95387
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			12/19/11					12/19/11	
Metal	T95389-1 Original	DUP	RPD	QC Limits	T95389-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	8.0	8.4	4.9	0-20	8.0	382	400	93.5	75-125
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc	17.6	16.6	5.8	0-20	17.6	439	400	105.4	75-125

Associated samples MP16412: T95387-1, T95387-2, T95387-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T95387
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 12/19/11

Metal	T95389-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	8.0	383	400	93.8	0.3	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc	17.6	446	400	107.1	1.6	20

Associated samples MP16412: T95387-1, T95387-2, T95387-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T95387
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	389	400	97.3	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	423	400	105.8	80-120

Associated samples MP16412: T95387-1, T95387-2, T95387-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T95387
Account: UTCCTEH - United Technology Corporation
Project: XDD/UT Collierville/031091

QC Batch ID: MP16412
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/19/11

Metal	T95389-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	8.04	5.97	25.7 (a)	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	17.6	26.5	50.4 (a)	0-10

Associated samples MP16412: T95387-1, T95387-2, T95387-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

ETC
www.etcmemphis.com
ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

3/23/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-076-0265
Client Project Description: Collierville Pretreatment

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 3/17/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : Collierville Pretreatment

Report Date : 3/23/2011

Report Number : **11-076-0265**

REPORT OF ANALYSIS

Received : 3/17/2011

Lab No : **90241**
Sample ID : **Grab**

Matrix: **Aqueous**
Sampled: **3/17/2011 11:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.024**	mg/L	0.005	1	03/19/11 00:19	BKN	EPA-200.7

Analytical Method: 624
Prep Method: EPA-624 (PREP) **Prep Batch(es):** L101127 **Date/Time Prepped:** 3/20/11 9:46

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Trichloroethene	<1.00	µg/L	1.00	1	03/20/11 16:20	SEB	L101128
Surrogate: 4-Bromofluorobenzene	98.8 %		Limits: 71-131%	1	03/20/11 16:20	SEB	L101128
Surrogate: Dibromofluoromethane	89.3 %		Limits: 70-128%	1	03/20/11 16:20	SEB	L101128
Surrogate: 1,2-Dichloroethane - d4	90.2 %		Limits: 67-136%	1	03/20/11 16:20	SEB	L101128
Surrogate: Toluene-d8	93.3 %		Limits: 70-130%	1	03/20/11 16:20	SEB	L101128

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
I	No surrogate recovery	MQL	Method Quantitation Limit

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-076-0265**

Shipping Method

○ FedEx ○ UPS ○ US Postal ○ Client ○ LMP ● Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	● Yes	○ No	○ N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Randy Thomas

Date & Time: 03/17/2011 14:51:51

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

11-076-0265
03446
2011-03-17
14:51:11
SAS Environmental, Inc.
Collierville Pretreatment

Client Name	Client Project Manager/Contact	Phone #
Town of Collierville	David Harrison	853-3219

Project/ Site Location	email Address
SAS Environmental - Pretreatment	dharrison@ci.collierville.tn.us

Project Number	FID #	Purchase Order Number
		Bill to SAS Env.

Type of Event: Single Daily Weekly Monthly Quarterly ~~Semi-Annual~~

Method of Shipment: Courier

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply.
- The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Cr	TCE									
3-17-11	1100	Effluent	1	WW	G	X										
3-17-11	1100	Effluent	3	WW	G		X									

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y / N		

Sampled by (Name/Affiliation): (Print): David Harrison Town of Collierville

Client Remarks/Comments: Report to David Harrison / Bill to SAS Env.

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Jennifer Benson	3/17/11	1233	Debb Sewell		
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Debb Sewell	03/17	143			
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			Smith	3.17.11	1343

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 5/10

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7/8/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-187-0273
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 7/6/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

ACCREDITED IN ACCORDANCE WITH nelac

ETC
www.etcmemphis.com
Environmental Testing & Consulting, Inc.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 7/8/2011

Report Number : **11-187-0273**

REPORT OF ANALYSIS

Received : 7/6/2011

Lab No : **92174**
Sample ID : **WP2 EFF**

Matrix: **Aqueous**
Sampled: **7/6/2011 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	**0.023**	mg/L	0.010	1	07/06/11 16:15	TKM	3500CrB
Total Chromium	**0.023**	mg/L	0.005	1	07/08/11 02:19	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-187-0273**

Shipping Method

○ Fed Ex ○ UPS ○ US Postal ● Client ○ Lab ○ Courier ○ Other :

Shipping container/cooler uncompromised?	● Yes	○ No	
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 07/06/2011 15:10:44

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK ALLEN	330 666 1546

SAS Environmental, Inc.
UT - Collierville, TN
11-187-0273
03446
2011-07-06
15:10:25

Project/ Site Location	email Address
UT COLLIERVILLE	mallen@sasenvironmental.com

Project Number	FID #	Purchase Order Number
031091		Bill to XOD-LLC

Type of Event: Single Daily Weekly Monthly (Quarterly) Semi-Annual

Method of Shipment: In Person

- NPDES
- Wastewater
- UST
- Other Program

- RUSH - Additional charges apply.
- The following require a Statement of Work
- Special Report Requirements
- Special Detection Limit(s)
- Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Total Cr	Cr+6
7-6-11	1320	WPZ EFF	2	GW	Grab	X	X

JTB

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): J Frank O'Connell Jr / SAS

Client Remarks/Comments: STANDARD TAT
EMAIL RESULTS to JFOIZI@aol.com
Bill to XOD-LLC ATTN: BRUCE CLIFF

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
(Y) / N	4°C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	7-6-11	1353			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature]	7-6-11	1353

SAFEGUARD Form No. 811-2/W09CS000060 5/10

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10/10/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-278-0295
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 10/5/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	VA NELAP	#460181	Texas	#T104704180-11-6	Arkansas	#88-0650
Mississippi		California	#09267CA	NC	#415	Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 10/10/2011

Report Number : **11-278-0295**

REPORT OF ANALYSIS

Received : 10/5/2011

Lab No : **92920**
Sample ID : **WP2EFF**

Matrix: **Aqueous**
Sampled: **10/5/2011 12:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	**0.025**	mg/L	0.010	1	10/05/11 08:50	TKM	3500CrB
Total Chromium	**0.024**	mg/L	0.005	1	10/07/11 13:27	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-278-0295**

Shipping Method

○ Fed Ex ○ UPS ○ US Postal ● Client ○ Lab ○ Courier ○ Other :

Shipping container/cooler uncompromised?	● Yes	○ No	
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 10/05/2011 14:55:52

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	330 239 9800

SAS Environmental, Inc.
UT - Collierville, TN

11-278-0295
03446
2011-10-05
14:54:09

Project/ Site Location	email Address
UT COLLIERVILLE	mallen@SASENVIRONMENTAL.com

Project Number	FID #	Purchase Order Number
031091		BIN TOXAD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply. The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Total Cr	Cr+6									
10-5-11	1255	WP2 EFF	2	GW	Grab	X	X									

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): J FRANK OCONNELL JR / SAS

Client Remarks/Comments: STANDARD TAT EMAIL RESULTS TO JFOIZI@COLI.COM BIN TOXAD-LLC ATTN BRUCE CLIFF

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y N	4°C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	10-5-11	1346			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature]	10-5-11	1346

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"A Laboratory Management Partner"

2/1/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-027-0263
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 1/27/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 2/1/2010

Report Number : **10-027-0263**

REPORT OF ANALYSIS

Received : 1/27/2010

Lab No : **95871**
Sample ID : **WP2 EFF**

Matrix: **Aqueous**
Sampled: **1/27/2010 12:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.025**	mg/L	0.005	1	01/28/10 23:35	NP	EPA-200.7
Chromium, Hexavalent	**0.02**	mg/L	0.01	1	01/28/10 07:40	TB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-027-0263**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 01/27/2010 14:04:50

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

10-027-0263
03446
2010-01-27
4:04:14

SAS Environmental, Inc.
UT - Collierville, TN

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	BILL TO XDD LLC 22 MARIN WAY UNIT 3 STRATHAM NH 03885 603-778-1100
031091	330 666 9443	
Purchase Order	**e-mail Address:**	
9156	JFO121@AOL.COM m.allen@SASENVIRONMENTAL.com	

GW	Gro
SW	Surf
DW	Drin
WW	Was
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

Special Method Requirements

Purchase Order Number: 9156

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Total Cr	Cr+6										ETC Laboratory Sample Number (for laboratory use only)
1-27-10	1255	WP2 EFF	GW	2	X	X										

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	01-27-10	1339			
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
Relinquished by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE): [signature]	Date: 1-27-10	Time: 1339

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
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2/23/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-049-0275
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 2/18/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 2/23/2010

Report Number : **10-049-0275**

REPORT OF ANALYSIS

Received : 2/18/2010

Lab No : **98528**
Sample ID : **WP2 Eff**

Matrix: **Aqueous**
Sampled: **2/18/2010 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.024**	mg/L	0.005	1	02/20/10 00:31	KN	EPA-200.7
Chromium, Hexavalent	**0.02**	mg/L	0.01	1	02/18/10 08:40	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC
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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-049-0275**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 02/18/2010 15:29:46

Environmental Testing & Consulting, Inc. 2790 Whitten Road
Memphis, TN 38133 (901) 213-2400 Fax (901)213-2440
clientservices@etcmemphis.com

ECORD

10-049-0275
03446
2010-02-18
5:28:51

SAS Environmental, Inc.
UT - Collierville, TN

Company Name: SAS ENVIRONMENTAL INC	Phone # 330 666 1546	RUSH[2]	
	PO #	Ice	X
Project/Site (Include State): UT COLLIERVILLE, TN	FID #		
	E-Mail m.allen@sasenvironmental.com		

Type of Event[1] : Single Daily Weekly (Monthly) Quarterly Semi-Annual Annual

Project # 031091

Project Manager/Contact: MARK V. ALLEN / J. FRANK O'CONNOR JR

Matrix: 1 Wastewater, 2 Aqueous, 3 Soil/Sediment, 4 Sludge, 5 Oil/Solvent, 6 Other

# of Cont.	Sample ID/ Number	Depth	Sample Date	Sample Time	Matrix	Type Grab/Comp	CrVI	Total Cr
2	WP2 EFF		02-18-10	1315	2	GRAB	X	X

Apply?
- NPDES
- Wastewater
- RCRA
- UST
- Risk Based Limits
- TRRP 13
- LA RECAP
- USACE

Comments

Sampled By	Method of Shipment	Blank/Cooler Temp	Remarks
J. FRANK O'CONNOR JR	IN-PERSON	4°C	Bill to XDD-LLC STANDARD TAT EMAIL RESULTS TO JF0121@AOL.COM

RELINQUISHED BY (sign)	DATE 2-18-10	TIME 1422	RECEIVED BY (sign)	DATE	TIME	1 - Routine Sampling Events Only
RELINQUISHED BY (sign)	DATE	TIME	RECEIVED BY (sign)	DATE	TIME	2 - Surcharges may apply
RELINQUISHED BY (sign)	DATE	TIME	RECEIVED BY LAB (print/sign) J. Smith	DATE 2.18.10	TIME 1422	

Please return ETC Sample Kit Request Form with chain of custody.
Distribution: Original accompanies samples to the laboratory.

Page 1 of 1

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ETC
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ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

2/28/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-054-0281
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 2/23/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

ACCREDITED IN ACCORDANCE WITH nelac

ETC
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ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 2/28/2011

Report Number : **11-054-0281**

REPORT OF ANALYSIS

Received : 2/23/2011

Lab No : **87106**
Sample ID : **WPZ Effluent**

Matrix: **Aqueous**
Sampled: **2/23/2011 12:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	**0.023**	mg/L	0.010	1	02/24/11 08:00	TKM	3500CrB
Total Chromium	**0.024**	mg/L	0.005	1	02/26/11 04:43	BKN	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-054-0281**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 02/23/2011 14:05:46

Report Number (for lab use only)

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
BILLYOKED LLC	MALLEN@SASENVIRONMENTAL.COM	

Matrix Key

GW	Ground Water
SW	Surface Water
DW	Drinking Water
WW	Wastewater
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ RUSH - Additional charges may apply.

The following require a Statement of Work
- ☐ Special Report Requirements
- ☐ Special Detection Limit(s)
- ☐ Special Method Requirements

Purchase Order Number:

SAS Environmental, Inc
Collierville Pretreatment

11-054-0281
03446
2011-02-23
14:04 52

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Total Cr	Cr+6										ETC Lab N (for laboratory use only)
2-23-11	1240	WP2 EFF	GW	2	X	X										

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION) (PRINT):
	4°C		

Laboratory Remarks:

	Date:	Time:		Date:	Time:
Sampled by: (SIGNATURE): [signature]	02-23-11	1345	Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE):			Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE):			Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE):			Received by: (SIGNATURE): [signature]	2.23.11	1345

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 4/09

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"A Laboratory Management Partner"

3/8/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-061-0230
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 3/2/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 3/8/2010

Report Number : **10-061-0230**

REPORT OF ANALYSIS

Received : 3/2/2010

Lab No : **55691**
Sample ID : **WP2 EFF**

Matrix: **Aqueous**
Sampled: **3/2/2010 11:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.028**	mg/L	0.005	1	03/04/10 21:12	KN	EPA-200.7
Chromium, Hexavalent	**0.03**	mg/L	0.01	1	03/03/10 09:15	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-061-0230**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 03/02/2010 12:23:47

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

10-061-0230
03446
2010-03-02
2:23:12

SAS Environmental, Inc.
UT - Collierville, TN

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill KDD LLC	JF0121@aol.com mallen@sasenvironmental.com	

Matrix	
GW	Ground W
SW	Surface W
DW	Drinking W
WW	Wastewa
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ Special Detection Limit(s)
☐ Special Method Requirements

Purchase Order Number: Bill KDD-LLC

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2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

nelac

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	TOTAL Cr	Cr+6										ETC Laboratory Sample Number (for laboratory use only)
3-2-10	1120	WP2 EFF	GW	2	X	X										

For Laboratory Use Only:

Ice	Cooler Temp.	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION) (PRINT):
	4°C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	03-02-10	12:13	[signature]	3/2/10	12:13
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
[signature]	3/2/10	1220	[signature]	3/2/10	1220
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**

SAFEGUARD LITHO USA Form No. 811-2/W09CS000060 4/09

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4/9/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-090-0270
Project Description: Collierville Pretreatment
WP#2

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 3/31/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : Collierville Pretreatment
WP#2

Report Date : 4/9/2010

Report Number : **10-090-0270**

REPORT OF ANALYSIS

Received : 3/31/2010

Lab No : **60098**
Sample ID : **Effluent**

Matrix: **Aqueous**
Sampled: **3/31/2010 11:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.020**	mg/L	0.005	1	04/06/10 16:34	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Town of Collierville
500 Keough Road
Collierville, TN 38017

Project Description **Collierville Pretreatment** Site **WP#2**

Lab Order Number **10-090-0270**
Lab ID **1003562-001A**
Field ID **Effluent**
Sample Number **60098**

Report of Analysis

Received **03/31/10**
Matrix **Aqueous**
Sampled **03/31/10 11:45**

Analytical Method 624

Prep Method 624 **Prep Batch** 28990 **Date/Time Prepped** 04/07/10 12:38
Default Vol/Wt 10 mL **Sample Vol/Wt** 10 mL

Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Batch
Trichloroethene	< 0.00100	mg/L	0.00100	1	04/07/10 19:05	VS	44153
Surrogate: Dibromofluoromethane		105 %	Limits: 70-128	1	04/07/10 19:05	VS	44153
Surrogate: Toluene-d8		94 %	Limits: 70-130	1	04/07/10 19:05	VS	44153
Surrogate: 4-Bromofluorobenzene		94 %	Limits: 71-131	1	04/07/10 19:05	VS	44153
Surrogate: 1,2-Dichloroethane-d4		110 %	Limits: 67-136	1	04/07/10 19:05	VS	44153

Qualifiers/ Definitions

*	Surrogate Recovery outside accepted limits	* I	Recoveries affected by interferences or high background
B	Analyte detected in the associated Method Blank	DF	Dilution Factor
E	Value exceeds method calibration range	H	Prepped / Analyzed out of holding time.
J	Estimated Value Analyte below reported detection limit	M	Minimum value
MDL	Method Dection Limit (unadjusted)	MQL	Method Quantitation Limit (adjusted)
MRL	Method Reporting Limit	N	Refer to attached Non-Compliance Report
Q	RPD >40% between primary and confirmation columns	SQL	Sample Quantitation Limit (adjusted MDL)

04/09/10 3446 SAS_ENV

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"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-090-0270**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 03/31/2010 14:57:54

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc.
Collierville Pretreatment

10-090-0270
03446
2010-03-31
4:57:22

1003562

Client Name	Client Project Manager/Contact	Phone #
SAS Environmental	David Harrison	901-853-3219

Project/ Site Location	email Address
WP #2	dharrison@ci.collierville.tn.us

Project Number	FID #	Purchase Order Number
		Bill to SAS

Type of Event: Single Daily Weekly Monthly Quarterly ~~Semi-Annual~~

Method of Shipment: Courier

☐ NPDES
☐ Wastewater
☐ UST
☐ Other Program

☐ RUSH - Additional charges apply.
The following require a Statement of Work
☐ Special Report Requirements
☐ Special Detection Limit(s)
☐ Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Total Cr	TCE
3-31-10	1145	Effluent	1	WW	G	X	
3-31-10	1145	Effluent	3	WW	G		X
3-31-10	1200	pH = 6.7 19°C					
3-31-10	1200	D.O. = 9.4 19°C					

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): David Harrison Town of Collierville

Client Remarks/Comments: Bill to SAS – Report to David Harrison

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
(Y) N	4°C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Jennifer Benjamin	3/31/10	1338	[signature]	3/31	13:38
[signature]	3/31/10	14:32	Received by: (SIGNATURE)		
Relinquished by: (SIGNATURE)			Received for lab by: (SIGNATURE)		
			Smith	3.31.10	1432

SAFEGUARD. LITHO USA Form No. 811-2/W09CS000060 12/09

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

4/11/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-097-0283
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 4/7/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 4/11/2011

Report Number : **11-097-0283**

REPORT OF ANALYSIS

Received : 4/7/2011

Lab No : **93356**
Sample ID : **WP2EFF**

Matrix: **Aqueous**
Sampled: **4/7/2011 12:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	**0.026**	mg/L	0.010	1	04/08/11 09:45	TKM	3500CrB
Total Chromium	**0.027**	mg/L	0.005	1	04/09/11 01:04	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-097-0283**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 04/07/2011 14:34:34

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc
UT - Collierville, TN

11-097-0283
03446
2011-04-07
14:34:12

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	350 606 1546

Project/ Site Location	email Address
UT COLLIERVILLE	mallen@SASENVIRONMENTAL.com

Project Number	FID #	Purchase Order Number
031091		Bill to XDD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- NPDES
- Wastewater
- UST
- Other Program

- RUSH - Additional charges apply.
- The following require a Statement of Work
- Special Report Requirements
- Special Detection Limit(s)
- Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Accredited by ACCLASS to nelac

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	TOTAL Cr	Cr +6
4-7-11	1200	WP2 EFF	2	GW	GRAB	X	X

Matrix
WW - Wastewater GW Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): JFRANK CLEWELL JR / SAS

Client Remarks/Comments: EMAIL RESULTS to JFO721@AOL.COM
Bill to XDD-LLC ATTN DEREK CLIFF

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	4-7-11	1341			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			J Smith	4-7-11	1341

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y / N	4°C	

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"A Laboratory Management Partner"

6/29/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-175-0254
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 6/24/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 6/29/2010

Report Number : **10-175-0254**

REPORT OF ANALYSIS

Received : 6/24/2010

Lab No : **71325**
Sample ID : **WP2 EFF**

Matrix: **Aqueous**
Sampled: **6/24/2010 11:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.022**	mg/L	0.005	1	06/26/10 04:30	SLH	EPA-200.7
Chromium, Hexavalent	**0.019**	mg/L	0.010	1	06/24/10 16:45	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-175-0254**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 06/24/2010 13:07:40

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

Report Number (for lab use only)

10-175-0254
03446
2010-06-24
3:07:01

SAS Environmental, Inc
Collierville Pretreatment

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill to XDD-LLC	JFOIZI@ROLI.COM MALLEN@SASENVIRONMENTAL.COM	

Mat	
GW	Ground
SW	Surface
DW	Drinkin
WW	Wastev
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

☐ Special Method Requirements

Purchase Order Number:

Bill to XDD-LLC Bruce Cliff

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Total Cr	Cr +6										ETC Laboratory Sample Number (for laboratory use only)
6-24-10	1155	WPZ EFF	GW	2	X	X										

JFO

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION): (PRINT):
	14C		

Laboratory Remarks:

Sampled by: (SIGNATURE):	Date:	Time:	Received by: (SIGNATURE):	Date:	Time:
[signature]	6-24-10	1210			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
[signature]	6-24-10	1256	Jerry Thompson	6/24/10	1253
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**
Jerry Thompson	6-24/10	12:53			
Relinquished by: (SIGNATURE):	**Date:**	**Time:**	**Received by: (SIGNATURE):**	**Date:**	**Time:**

SAFEGUARD. LITHO USA Form No. 811-2/W09CS000060 4/09

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"A Laboratory Management Partner"

9/16/2011

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
ETC Report Number: 11-251-0295
Client Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 9/8/2011 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the analytical method(s) and NELAC. All results provided are in compliance with NELAC requirements unless otherwise indicated and/or narrated.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX	Arkansas	#88-0650
Mississippi		California	#05240CA			Oklahoma	#9311	Virginia	#00106
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396

ACCREDITED IN ACCORDANCE WITH nelac

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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 9/16/2011

Report Number : **11-251-0295**

REPORT OF ANALYSIS

Received : 9/8/2011

Lab No : **88663**
Sample ID : **WPZEFF**

Matrix: **Aqueous**
Sampled: **9/8/2011 12:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Chromium, Hexavalent	**0.025**	mg/L	0.010	1	09/09/11 08:35	TKM	3500CrB
Total Chromium	**0.021**	mg/L	0.005	1	09/09/11 19:19	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **11-251-0295**

Shipping Method

○ Fed Ex ○ UPS ○ US Postal ● Client ○ Lab ○ Courier ○ Other :

Shipping container/cooler uncompromised?	● Yes	○ No	
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brooke Shoup

Date & Time: 09/08/2011 14:06:19

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

11-251-0295
03446
2011-09-08
14:06:00

SAS Environmental, Inc.
UT - Collierville, TN

Client Name	Client Project Manager/Contact	Phone #
SAS ENVIRONMENTAL INC	MARK V. ALLEN	330 666 1546

Project/ Site Location	email Address
UT COLLIERVILLE	[illegible]@SASENVIRONMENTAL.COM

Project Number	FID #	Purchase Order Number
031091		Bill to KDD-LLC

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: IN PERSON

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply.
- The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

nelac

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	Total Cr	Cr+6
09-08-11	1200	WP2EFF	2	GW	Grab	X	X

JFO

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): JFRANK O'CONNELL JR / SAS

Client Remarks/Comments: STANDARD TAT EMAIL RESULTS TO [illegible]@[illegible].COM BILL TO KDD-LLC ATTN BRUCE CLIFT

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	09-08-11	1359			
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE) [signature]	Date 9.8.11	Time 1359

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y N	24°C	

CATECHARD Form No. B11-2/W09CS000060 5/10

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9/14/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-250-0256
Project Description: UT - Collierville, TN
Project #031091

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 9/7/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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"A Laboratory Management Partner"

03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : UT - Collierville, TN
Project #031091

Report Date : 9/14/2010

Report Number : **10-250-0256**

REPORT OF ANALYSIS

Received : 9/7/2010

Lab No : **80818**
Sample ID : **WP2 EFF**

Matrix: **Aqueous**
Sampled: **9/7/2010 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.023**	mg/L	0.005	1	09/10/10 19:53	JTR	EPA-200.7
Chromium, Hexavalent	**0.02**	mg/L	0.01	1	09/07/10 12:55	TKB	SM-3500CrB

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

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2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-250-0256**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 09/07/2010 11:51:30

Environmental Testing & Consulting, Inc. Chain of Custody

Page 1 of 1

SAS Environmental, Inc.
UT - Collierville, TN

10-250-0256
03446
2010-09-07
11:51:08

Client Name:	Client Project Manager/Contact	FID #
SAS ENVIRONMENTAL Inc	MARK V. ALLEN & FRANK O'CONNELL JR	
Project/ Site Location:	**Phone Number:**	**Method of Shipment/Delivery**
UT COLLIERVILLE	330 666 1546	IN PERSON
Project Number	**Fax Number:**	
031091	330 666 7443	
Purchase Order	**e-mail Address:**	
Bill to XDD-LLC	mallen@SASENVIRONMENTAL.COM JFO121@aol.com	

Ma

GW	Grou
SW	Surfa
DW	Drinking Water
WW	Wastewater
SL	Soil
SD	Solid
ST	Sediment
NL	Nonaqueous Liquid
SG	Sludge
Other:	

- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Purchase Order Number: Bill to XDD-LLC

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

nelac

Required Analysis:

Date:	Time:	Sample Identification:	Matrix	Number of Containers	Total Cr	Cr+6										ETC Laboratory Sample Number (for laboratory use only)
9-7-10	1030	WP2 EFF	GW	2	X	X										

For Laboratory Use Only:

Ice	Cooler Temp	ETC Cooler No.(s)	Sampled by (NAME/AFFILIATION) (PRINT):
	LYC		

Laboratory Remarks:

	Date:	Time:		Date:	Time:
Sampled by: (SIGNATURE): [signature]	9-7-10	1148	Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE): [signature]	9-7-10	1148	Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE):			Received by: (SIGNATURE):		
Relinquished by: (SIGNATURE):			Received by: (SIGNATURE): [signature]	9.7.10	11:48

SAFEGUARD LTR0108A Form No. 811-2/W09CS000060 4/09

ETC
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ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

9/14/2010

SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron, OH, 44321

Ref: Analytical Testing
Report Number: 10-250-0272
Project Description: Collierville Pretreatment

Dear Mr. Mark Allen:

Environmental Testing and Consulting, Inc. received 1 sample(s) on 9/7/2010 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Alabama	#40750	Louisiana	#04015	Florida	#E87943	Texas	#T104704180-05-TX
Arkansas	#88-0650	Mississippi		California	#05240CA		
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279		
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012		
Kentucky UST	#41	Virginia	#00106	NELAP	#100456		

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03446
SAS Environmental, Inc.
Mr. Mark Allen
1270 S. Cleveland-Massillion Road
Akron , OH 44321

Project Information : Collierville Pretreatment

Report Date : 9/14/2010

Report Number : **10-250-0272**

REPORT OF ANALYSIS

Received : 9/7/2010

Lab No : **80856**
Sample ID : **Effluent**

Matrix: **Aqueous**
Sampled: **9/7/2010 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Chromium	**0.023**	mg/L	0.005	1	09/10/10 20:06	JTR	EPA-200.7

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

ETC ENVIRONMENTAL TESTING & CONSULTING, INC.
www.etcmemphis.com 2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Town of Collierville
500 Keough Road
Collierville, TN 38017

Project Description **Collierville Pretreatment**

Lab Order Number **10-250-0272**
Lab ID **1009101-001A**
Field ID **Effluent**
Sample Number **80856**

Report of Analysis

Received **09/07/10**
Matrix **Aqueous**
Sampled **09/07/10 10:30**

Analytical Method 624

Prep Method 624 **Prep Batch** 31156 **Date/Time Prepped** 09/10/10 10:02
Default Vol/Wt 10 mL **Sample Vol/Wt** 10 mL

Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Batch
Trichloroethene	< 1.00	µg/L	1.00	1	09/10/10 16:23	SB	46634
Surrogate: Dibromofluoromethane	118	%	Limits: 70-128	1	09/10/10 16:23	SB	46634
Surrogate: Toluene-d8	98	%	Limits: 70-130	1	09/10/10 16:23	SB	46634
Surrogate: 4-Bromofluorobenzene	105	%	Limits: 71-131	1	09/10/10 16:23	SB	46634
Surrogate: 1,2-Dichloroethane-d4	125	%	Limits: 67-136	1	09/10/10 16:23	SB	46634

Qualifiers/ Definitions

*	Surrogate Recovery outside accepted limits	* I	Recoveries affected by interferences or high background
B	Analyte detected in the associated Method Blank	DF	Dilution Factor
E	Value exceeds method calibration range	H	Prepped / Analyzed out of holding time.
J	Estimated Value Analyte below reported detection limit	M	Minimum value
MDL	Method Dection Limit (adjusted)	MQL	Method Quantitation Limit (adjusted)
MRL	Method Reporting Limit	N	Refer to attached Non-Compliance Report
Q	RPD >40% between primary and confirmation columns	SQL	Sample Quantitation Limit (adjusted MDL)

09/14/10 3446 SAS_ENV

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Environmental Testing & Consulting, Inc.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

Cooler Receipt Form

Customer Number: **03446**
Customer Name: **SAS Environmental, Inc.**
Report Number: **10-250-0272**

Shipping Method

○ FedEx ○ UPS ○ US Postal ● Client ○ LMP ○ Courier ○ Other:

Shipping container/cooler uncompromised?	● Yes	○ No	○ Not Present
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody present?	● Yes	○ No	
COC agrees with sample labels?	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated tests?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Container temperature in compliance?	● Yes	○ No	
Water - VOA vials free of headspace?	○ Yes	○ No	● N/A
Water - Preservation acceptable upon receipt?	● Yes	○ No	○ N/A
Samples screened for radioactivity (COE only)?	○ Yes	○ No	● N/A
Special precautions or instructions included?	○ Yes	● No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 09/07/2010 13:14:22

Environmental Testing & Consulting, Inc. Chain of Custody Page 1 of 1

Client Name	Client Project Manager/Contact	Phone #
SAS Environmental	David Harrison	901-853-3219

Project/ Site Location	email Address
TOC-WP#2 Pretreatment	dharrison@ci.collierville.tn.us

Project Number	FID #	Purchase Order Number
		Bill to ~~SAS~~ XDD

Type of Event: Single Daily Weekly Monthly Quarterly Semi-Annual

Method of Shipment: Courier

R

SAS Environmental, Inc.
Collierville Pretreatment

10-250-0272
03446
2010-09-07
13:13:47

1009101

- [ ] NPDES
- [ ] Wastewater
- [ ] UST
- [ ] Other Program

- [ ] RUSH - Additional charges apply. The following require a Statement of Work
- [ ] Special Report Requirements
- [ ] Special Detection Limit(s)
- [ ] Special Method Requirements

Environmental Testing & Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400 (phone)
(901) 213-2440 (fax)
www.etcmemphis.com

Required Analysis:

Date:	Time:	Sample Identification:	Number of Containers	Matrix	(G)rab or (C)omposite	TCE	Total Cr								
9-7-10	1030	Effluent	3	WW	G	X									
9-7-10	1030	Effluent	1	WW	G		X								
9-7-10	1040	pH = 7.0@21°C													
9-7-10	1040	DO = 8.8@21°C													

Matrix
WW - Wastewater GW - Groundwater DW-Drinking Water S-Soil O-Oil L-Non aqueous liquid
Other: _____

Sampled by (Name/Affiliation): (Print): David Harrison - TOC

Client Remarks/Comments: Send Report to David Harrison
Send Bill to ~~SAS Environmental~~ XDD

For Laboratory Use Only

Ice	Cooler Temp	Lab Comments
Y / N	4°C	

Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
[signature]	9/7/10	1213	[signature]	9-7-10	
Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Relinquished by: (SIGNATURE)	Date	Time	Received for lab by: (SIGNATURE)	Date	Time
			[signature]	9/7/10	1315

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