Analytical Report for :

Shaw Environmental & Infrastructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 4109

May 20, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3169C
Sample Depth:

Sample ID 4109-001
Matrix: WATER

Date Collected: 05/15/2003 18:20
Date Received: 05/16/2003 12:15

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Debra Trinidad
Prep Date: 05/16/03
Prep Time: 12:28

Analyst: Debra Trinidad
Date Analyzed: 05/16/03
Time Analyzed: 17:01

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	2.3	1.0	ug/L	
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169C
Sample Depth:

Sample ID 4109-001
Matrix: WATER

Date Collected: 05/15/2003 18:20
Date Received: 05/16/2003 12:15

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Debra Trinidad
Prep Date: 05/16/03
Prep Time: 12:28

Analyst: Debra Trinidad
Date Analyzed: 05/16/03
Time Analyzed: 17:01

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	270	10	ug/L	D
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	1.5	1.0	ug/L	
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15336 BLK
Sample Depth:

Sample ID 15336 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Debra Trinidad
Prep Date: 05/16/03
Prep Time: 12:28

Analyst: Debra Trinidad
Date Analyzed: 05/16/03
Time Analyzed: 13:18

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15336 BLK
Sample Depth:

Sample ID 15336 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Debra Trinidad
Prep Date: 05/16/03
Prep Time: 12:28

Analyst: Debra Trinidad
Date Analyzed: 05/16/03
Time Analyzed: 13:18

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/20/03 18:29

Project ID: 796886

Work Order #: 4109

Lab Batch #: 16435 **Sample:** 15336 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15336 BKS

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.64	10.0	96	70-131	
Bromofluorobenzene	9.99	10.0	100	80-125	
Toluene-D8	10.1	10.0	101	84-120	

Lab Batch #: 16435 **Sample:** 15336 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15336 BLK

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.66	10.0	97	70-131	
Bromofluorobenzene	10.4	10.0	104	80-125	
Toluene-D8	10.5	10.0	105	84-120	

Lab Batch #: 16435 **Sample:** 4109-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169C

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.00	10.0	90	58-146	
Bromofluorobenzene	10.0	10.0	100	74-124	
Toluene-D8	10.4	10.0	104	81-118	

Lab Batch #: 16435 **Sample:** 4109-001 DL / DIL **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169CDL

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	95.2	100	95	58-146	
Bromofluorobenzene	92.1	100	92	74-124	
Toluene-D8	95.8	100	96	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/20/03 18:29

Project ID: 796886

Work Order #: 4109

Lab Batch #: 16435 **Sample:** 4109-001 MS / MS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169CMS

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	99.9	100	100	58-146	
Bromofluorobenzene	97.9	100	98	74-124	
Toluene-D8	99.5	100	100	81-118	

Lab Batch #: 16435 **Sample:** 4109-001 MSD / MSD **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169CMSD

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	98.6	100	99	58-146	
Bromofluorobenzene	98.8	100	99	74-124	
Toluene-D8	97.7	100	98	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 LA Certification #04079 NC Certification #483
SC Certification #98015 USACE-MRD Approved

Case Narrative

AAL Work Order # 4114

Client Project: Fort McClellan/ 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 2-page case narrative, 5 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Brian G Burns — *May 19, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

2. The following samples required dilution due to high analyte concentration, resulting in elevated detection limits:

   VOC-SW-846-8260B
   PE3169D

3. Toluene result in this work order should be consider as estimated due to head space vial used for dilution.

Venkat R. Mudium — *May 20, 2003*
Venkat R. Mudium — Date
VOC Analyst

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ACCURA ANALYTICAL LABORATORY, INC. (AAL)
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Case Narrative

These case narrative notations have been reviewed by:

Raghu Tadimalla
Project Manager

May 21, 2003
Date

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Analytical Report for :

Shaw Environmental & Infrastructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 4114

May 21, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3169D
Sample Depth:

Sample ID 4114-001
Matrix: WATER

Date Collected: 05/16/2003 11:40
Date Received: 05/19/2003 14:18

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/20/03
Prep Time: 09:01

Analyst: Venkat Mudium
Date Analyzed: 05/20/03
Time Analyzed: 11:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	2.5	10	ug/L	J
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	2.6	1.0	ug/L	
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169D	Sample ID 4114-001	Date Collected: 05/16/2003 11:40
Sample Depth:	Matrix: WATER	Date Received: 05/19/2003 14:18

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Venkat Mudium
Prep Method: SW5030B	Prep Date: 05/20/03	Date Analyzed: 05/20/03
	Prep Time: 09:01	Time Analyzed: 11:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	0.58	1.0	ug/L	JB
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	50	1.0	ug/L	E
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.78	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15361 BLK
Sample Depth:

Sample ID 15361 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/20/03
Prep Time: 09:01

Analyst: Venkat Mudium
Date Analyzed: 05/20/03
Time Analyzed: 09:53

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15361 BLK
Sample Depth:

Sample ID 15361 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/20/03
Prep Time: 09:01

Analyst: Venkat Mudium
Date Analyzed: 05/20/03
Time Analyzed: 09:53

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	0.51	1.0	ug/L	J
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/21/03 08:39

Project ID: 796886

Work Order #: 4114

Lab Batch #: 16468 **Sample:** 15361 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15361 BKS

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	8.95	10.0	90	70-131	
Bromofluorobenzene	10.3	10.0	103	80-125	
Toluene-D8	10.8	10.0	108	84-120	

Lab Batch #: 16468 **Sample:** 15361 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15361 BLK

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.58	10.0	96	70-131	
Bromofluorobenzene	10.2	10.0	102	80-125	
Toluene-D8	10.6	10.0	106	84-120	

Lab Batch #: 16468 **Sample:** 4114-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169D

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.2	10.0	112	58-146	
Bromofluorobenzene	11.2	10.0	112	74-124	
Toluene-D8	11.5	10.0	115	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 LA Certification #04079 NC Certification #483
SC Certification #98015 USACE-MRD Approved

Case Narrative

AAL Work Order # 4123

Client Project: Fort McClellan/ 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1-page case narrative, 7 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Brian G Burns — *May 20, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Venkat R. Mudium — *May 21, 2003*
Venkat R. Mudium — Date
VOC Analyst

These case narrative notations have been reviewed by:

May 21, 2003
Raghu Tadimalla — Date
Project Manager

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Analytical Report for :

Shaw Environmental & Infrastructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 4123

May 21, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3169E
Sample Depth:

Sample ID 4123-001
Matrix: WATER

Date Collected: 05/19/2003 16:00
Date Received: 05/20/2003 12:35

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 10:35

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169E
Sample Depth:

Sample ID 4123-001
Matrix: WATER

Date Collected: 05/19/2003 16:00
Date Received: 05/20/2003 12:35

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 10:35

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	1.8	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169F
Sample Depth:

Sample ID 4123-002
Matrix: WATER

Date Collected: 05/20/2003 09:15
Date Received: 05/20/2003 12:35

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 11:31

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169F
Sample Depth:

Sample ID 4123-002
Matrix: WATER

Date Collected: 05/20/2003 09:15
Date Received: 05/20/2003 12:35

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 11:31

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	1.9	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15388 BLK
Sample Depth:

Sample ID 15388 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 09:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15388 BLK
Sample Depth:

Sample ID 15388 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 09:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/21/03 14:41

Project ID: 796886

Work Order #: 4123

Lab Batch #: 16495 **Sample:** 15388 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15388 BKS

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.67	10.0	97	70-131	
Bromofluorobenzene	9.96	10.0	100	80-125	
Toluene-D8	10.4	10.0	104	84-120	

Lab Batch #: 16495 **Sample:** 15388 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15388 BLK

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.84	10.0	98	70-131	
Bromofluorobenzene	10.8	10.0	108	80-125	
Toluene-D8	10.8	10.0	108	84-120	

Lab Batch #: 16495 **Sample:** 4123-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169E

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.3	10.0	103	58-146	
Bromofluorobenzene	10.0	10.0	100	74-124	
Toluene-D8	10.0	10.0	100	81-118	

Lab Batch #: 16495 **Sample:** 4123-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169F

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.5	10.0	105	58-146	
Bromofluorobenzene	11.2	10.0	112	74-124	
Toluene-D8	11.8	10.0	118	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 LA Certification #04079 NC Certification #483
SC Certification #98015 USACE-MRD Approved

Case Narrative

AAL Work Order # 4125

Client Project: Fort McClellan/ 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1-page case narrative, 7 report pages, and 2 QC surrogate recovery pages.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Brian G Burns — *May 21, 2003*
Brian Burns — Date
Receiving

These case narrative notations have been reviewed by:

May 27, 2003
Raghu Tadimalla — Date
Project Manager

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NELAP Accredited Certificate #-E87429•Exp 6/30/03 Effective 7/01/02

Analytical Report for :

Shaw Environmental & Infrastructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 4125

May 23, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3169G
Sample Depth:

Sample ID 4125-001
Matrix: WATER

Date Collected: 05/20/2003 05:30
Date Received: 05/21/2003 13:00

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Debra Trinidad
Date Analyzed: 05/21/03
Time Analyzed: 17:51

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	0.57	1.0	ug/L	J
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169G	Sample ID 4125-001	Date Collected: 05/20/2003 05:30
Sample Depth:	Matrix: WATER	Date Received: 05/21/2003 13:00

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 05/21/03	Date Analyzed: 05/21/03
	Prep Time: 08:50	Time Analyzed: 17:51

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	6.1	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.66	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169H
Sample Depth:

Sample ID 4125-002
Matrix: WATER

Date Collected: 05/21/2003 11:40
Date Received: 05/21/2003 13:00

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Debra Trinidad
Date Analyzed: 05/21/03
Time Analyzed: 19:09

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169H
Sample Depth:

Sample ID 4125-002
Matrix: WATER

Date Collected: 05/21/2003 11:40
Date Received: 05/21/2003 13:00

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Debra Trinidad
Date Analyzed: 05/21/03
Time Analyzed: 19:09

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.44	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15388 BLK
Sample Depth:

Sample ID 15388 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 09:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15388 BLK
Sample Depth:

Sample ID 15388 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/21/03
Prep Time: 08:50

Analyst: Venkat Mudium
Date Analyzed: 05/21/03
Time Analyzed: 09:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/23/03 09:56

Project ID: 796886

Work Order #: 4125

Lab Batch #: 16495 **Sample:** 15388 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15388 BKS

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.67	10.0	97	70-131	
Bromofluorobenzene	9.96	10.0	100	80-125	
Toluene-D8	10.4	10.0	104	84-120	

Lab Batch #: 16495 **Sample:** 15388 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15388 BLK

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.84	10.0	98	70-131	
Bromofluorobenzene	10.8	10.0	108	80-125	
Toluene-D8	10.8	10.0	108	84-120	

Lab Batch #: 16495 **Sample:** 4115-002 MS / MS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 0000MW132112MS

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.5	10.0	105	58-146	
Bromofluorobenzene	10.4	10.0	104	74-124	
Toluene-D8	10.7	10.0	107	81-118	

Lab Batch #: 16495 **Sample:** 4115-002 MSD / MSD **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 0000MW132112MSD

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.8	10.0	108	58-146	
Bromofluorobenzene	10.7	10.0	107	74-124	
Toluene-D8	10.7	10.0	107	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/23/03 09:56

Project ID: 796886

Work Order #: 4125

Lab Batch #: 16495 **Sample:** 4125-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169G

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.29	10.0	93	58-146	
Bromofluorobenzene	9.72	10.0	97	74-124	
Toluene-D8	9.67	10.0	97	81-118	

Lab Batch #: 16495 **Sample:** 4125-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169H

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.41	10.0	94	58-146	
Bromofluorobenzene	9.60	10.0	96	74-124	
Toluene-D8	10.1	10.0	101	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 LA Certification #04079 NC Certification #483
SC Certification #98015 USACE-MRD Approved

Case Narrative

AAL Work Order # 4134

Client Project: Fort McClellan/ 796887

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1-page case narrative, 11 report pages, and 2 QC surrogate recovery pages.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Michael Trinidad — *May 22, 2003*
Michael Trinidad — Date
Project Manager / Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Venkat R. Mudium — *May 23, 2003*
Venkat R. Mudium — Date
VOC Analyst

These case narrative notations have been reviewed by:

Raghu Tadimalla — *May 27, 2003*
Raghu Tadimalla — Date
Project Manager

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Analytical Report for :

Shaw Environmental & Infrastructure, Inc.

Project Name : Fort McClellan

Project Number: 796887

Project Manager: Duane Nielsen

Lab. Work Order # : 4134

May 23, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3169I
Sample Depth:

Sample ID 4134-001
Matrix: WATER

Date Collected: 05/21/2003 16:48
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 09:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169I
Sample Depth:

Sample ID 4134-001
Matrix: WATER

Date Collected: 05/21/2003 16:48
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 09:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	2.7	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.41	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169J
Sample Depth:

Sample ID 4134-002
Matrix: WATER

Date Collected: 05/22/2003 07:40
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 09:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169J
Sample Depth:

Sample ID 4134-002
Matrix: WATER

Date Collected: 05/22/2003 07:40
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 09:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	0.40	1.0	ug/L	J
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169K
Sample Depth:

Sample ID 4134-003
Matrix: WATER

Date Collected: 05/22/2003 10:05
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 08:54

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	0.92	1.0	ug/L	J
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169K
Sample Depth:

Sample ID 4134-003
Matrix: WATER

Date Collected: 05/22/2003 10:05
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 08:54

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	0.31	1.0	ug/L	J
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	0.47	1.0	ug/L	J
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.75	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169L
Sample Depth:

Sample ID 4134-004
Matrix: WATER

Date Collected: 05/22/2003 12:25
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 08:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	0.38	1.0	ug/L	J
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	0.76	1.0	ug/L	J
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3169L
Sample Depth:

Sample ID 4134-004
Matrix: WATER

Date Collected: 05/22/2003 12:25
Date Received: 05/22/2003 13:40

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 08:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.62	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15411 BLK
Sample Depth:

Sample ID 15411 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 07:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: 15411 BLK
Sample Depth:

Sample ID 15411 BLK
Matrix: WATER

Date Collected:
Date Received:

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 05/23/03
Prep Time: 06:00

Analyst: Venkat Mudium
Date Analyzed: 05/23/03
Time Analyzed: 07:28

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/23/03 11:47

Project ID: 796887

Work Order #: 4134

Lab Batch #: 16528 **Sample:** 15411 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15411 BKS

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.62	10.0	96	70-131	
Bromofluorobenzene	10.8	10.0	108	80-125	
Toluene-D8	11.2	10.0	112	84-120	

Lab Batch #: 16528 **Sample:** 15411 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 15411 BLK

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.1	10.0	101	70-131	
Bromofluorobenzene	11.0	10.0	110	80-125	
Toluene-D8	11.3	10.0	113	84-120	

Lab Batch #: 16528 **Sample:** 4134-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169I

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.72	10.0	97	58-146	
Bromofluorobenzene	9.89	10.0	99	74-124	
Toluene-D8	10.2	10.0	102	81-118	

Lab Batch #: 16528 **Sample:** 4134-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169J

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	8.40	10.0	84	58-146	
Bromofluorobenzene	10.0	10.0	100	74-124	
Toluene-D8	10.1	10.0	101	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 05/23/03 11:47

Project ID: 796887

Work Order #: 4134

Lab Batch #: 16528 **Sample:** 4134-003 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169K

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.1	10.0	101	58-146	
Bromofluorobenzene	10.4	10.0	104	74-124	
Toluene-D8	10.3	10.0	103	81-118	

Lab Batch #: 16528 **Sample:** 4134-004 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3169L

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.62	10.0	96	58-146	
Bromofluorobenzene	10.3	10.0	103	74-124	
Toluene-D8	10.4	10.0	104	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 NC Certification #483 SC Certification #98015
USACE-MRD Approved

Case Narrative

AAL Work Order # 3591

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 7 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 4°C.

Brian G Burns — *February 26, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Debra Trinidad — *February 27, 2003*
Debra Trinidad — Date
VOC Analyst

These case narrative notations have been reviewed by:

February 27, 2003
David C. Fuller — Date
VP – Client Services

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Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3591

February 27, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3171A
Sample Depth:

Sample ID 3591-001
Matrix: WATER

Date Collected: 02/25/2003 12:44
Date Received: 02/26/2003 13:05

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 13:51

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171A
Sample Depth:

Sample ID 3591-001
Matrix: WATER

Date Collected: 02/25/2003 12:44
Date Received: 02/26/2003 13:05

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 13:51

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171B
Sample Depth:

Sample ID 3591-002
Matrix: WATER

Date Collected: 02/25/2003 15:13
Date Received: 02/26/2003 13:05

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 14:17

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171B	Sample ID 3591-002	Date Collected: 02/25/2003 15:13
Sample Depth:	Matrix: WATER	Date Received: 02/26/2003 13:05

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 14:17

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	1.3	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14553 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 09:27

SW8260LL	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane (EDB)	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14553 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 09:27

SW8260LL	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylenes	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
p-Isopropyltoluene	<R.L.	1.0	ug/L	U
sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 02/27/03 16:56

Project ID: 796886

Work Order #: 3591

Lab Batch #: 15376 **Sample:** 14553 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

TCL VOCs by SW8260B (25mL Purge) Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.9	10.0	119	70-131	
Bromofluorobenzene	9.59	10.0	96	80-125	
Toluene-D8	9.14	10.0	91	84-120	

Lab Batch #: 15376 **Sample:** 14553 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

TCL VOCs by SW8260B (25mL Purge) Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.3	10.0	103	70-131	
Bromofluorobenzene	10.3	10.0	103	80-125	
Toluene-D8	10.3	10.0	103	84-120	

Lab Batch #: 15376 **Sample:** 3591-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171A

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.6	10.0	116	58-146	
Bromofluorobenzene	8.68	10.0	87	74-124	
Toluene-D8	8.58	10.0	86	81-118	

Lab Batch #: 15376 **Sample:** 3591-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171B

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	12.9	10.0	129	58-146	
Bromofluorobenzene	9.28	10.0	93	74-124	
Toluene-D8	9.29	10.0	93	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 NC Certification #483 SC Certification #98015
USACE-MRD Approved

Case Narrative

AAL Work Order # 3593

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 9 report pages, and 2 QC surrogate recovery pages.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Brian G Burns — *February 27, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Debra Trinidad — *February 27, 2003*
Debra Trinidad — Date
VOC Analyst

These case narrative notations have been reviewed by:

David C. Fuller — *February 27, 2003*
David C. Fuller — Date
VP – Client Services

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Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3593

February 27, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3171C
Sample Depth:

Sample ID 3593-001
Matrix: WATER

Date Collected: 02/26/2003 09:15
Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 14:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171C
Sample Depth:

Sample ID 3593-001
Matrix: WATER

Date Collected: 02/26/2003 09:15
Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 14:42

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	0.66	1.0	ug/L	J
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171D
Sample Depth:

Sample ID 3593-002
Matrix: WATER

Date Collected: 02/26/2003 11:40
Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 15:58

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171D	Sample ID 3593-002	Date Collected: 02/26/2003 11:40
Sample Depth:	Matrix: WATER	Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 15:58

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	6.4	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171E	Sample ID 3593-003	Date Collected: 02/26/2003 15:00
Sample Depth:	Matrix: WATER	Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 15:32

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: PE3171E
Sample Depth:

Sample ID 3593-003
Matrix: WATER

Date Collected: 02/26/2003 15:00
Date Received: 02/27/2003 09:42

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 02/27/03
Prep Time: 08:09

Analyst: Debra Trinidad
Date Analyzed: 02/27/03
Time Analyzed: 15:32

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	3.4	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14553 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 09:27

SW8260LL	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane (EDB)	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14553 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 02/27/03	Date Analyzed: 02/27/03
	Prep Time: 08:09	Time Analyzed: 09:27

SW8260LL	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylenes	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
p-Isopropyltoluene	<R.L.	1.0	ug/L	U
sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 02/27/03 17:35

Project ID: 796886

Work Order #: 3593

Lab Batch #: 15376 **Sample:** 14553 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

TCL VOCs by SW8260B (25mL Purge) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.9	10.0	119	70-131	
Bromofluorobenzene	9.59	10.0	96	80-125	
Toluene-D8	9.14	10.0	91	84-120	

Lab Batch #: 15376 **Sample:** 14553 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

TCL VOCs by SW8260B (25mL Purge) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.3	10.0	103	70-131	
Bromofluorobenzene	10.3	10.0	103	80-125	
Toluene-D8	10.3	10.0	103	84-120	

Lab Batch #: 15376 **Sample:** 3593-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171C

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	12.1	10.0	121	58-146	
Bromofluorobenzene	8.29	10.0	83	74-124	
Toluene-D8	8.60	10.0	86	81-118	

Lab Batch #: 15376 **Sample:** 3593-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171D

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	12.2	10.0	122	58-146	
Bromofluorobenzene	9.19	10.0	92	74-124	
Toluene-D8	8.70	10.0	87	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 02/27/03 17:35

Project ID: 796886

Work Order #: 3593

Lab Batch #: 15376 **Sample:** 3593-003 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171E

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.9	10.0	119	58-146	
Bromofluorobenzene	8.91	10.0	89	74-124	
Toluene-D8	8.59	10.0	86	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 NC Certification #483 SC Certification #98015
USACE-MRD Approved

Case Narrative

AAL Work Order # 3606

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 5 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 5°C.
2. Upon receipt, headspace was noted in all vials submitted for sample PE3171F for VOCs (25ml Purge) by SW8260B analysis. Therefore, the results should be considered estimated.

Brian G Burns — *February 28, 2003*
Brian Burns-***Receiving*** — Date
Receiving

VOC Notations:

1. The pH of the water samples was 7.0 prior to the VOC analysis.

Venkat R. Mudium — *March03, 2003*
Venkat R. Mudium-***VOC Analyst*** — Date

These case narrative notations have been reviewed by:

David C. Fuller — *March 4, 2003*
VP – Client Services — Date

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Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3606

March 4, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: **PE3171F**
Sample Depth:

Sample ID **3606-001**
Matrix: WATER

Date Collected: 02/27/2003 15:18
Date Received: 02/28/2003 14:13

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/03/03
Prep Time: 14:36

Analyst: Venkat Mudium
Date Analyzed: 03/03/03
Time Analyzed: 17:19

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	1.1	10	ug/L	J
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171F**
Sample Depth:

Sample ID **3606-001**
Matrix: WATER

Date Collected: 02/27/2003 15:18
Date Received: 02/28/2003 14:13

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/03/03
Prep Time: 14:36

Analyst: Venkat Mudium
Date Analyzed: 03/03/03
Time Analyzed: 17:19

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	0.90	1.0	ug/L	J
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	3.3	2.0	ug/L	
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	0.55	1.0	ug/L	J
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	17	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID **14575 BLK**	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Venkat Mudium
Prep Method: SW5030B	Prep Date: 03/03/03	Date Analyzed: 03/03/03
	Prep Time: 14:36	Time Analyzed: 15:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID **14575 BLK**	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Venkat Mudium
Prep Method: SW5030B	Prep Date: 03/03/03	Date Analyzed: 03/03/03
	Prep Time: 14:36	Time Analyzed: 15:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 03/04/03 09:09

Project ID: 796886

Work Order #: 3606

Lab Batch #: 15401 **Sample:** 14575 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.9	10.0	109	70-131	
Bromofluorobenzene	9.98	10.0	100	80-125	
Toluene-D8	9.73	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 14575 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.34	10.0	93	70-131	
Bromofluorobenzene	9.79	10.0	98	80-125	
Toluene-D8	9.70	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 14575 BSD / BSD **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.8	10.0	118	70-131	
Bromofluorobenzene	10.2	10.0	102	80-125	
Toluene-D8	9.70	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 3606-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171F

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	12.5	10.0	125	58-146	
Bromofluorobenzene	10.0	10.0	100	74-124	
Toluene-D8	9.37	10.0	94	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

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FL Certification #E87429 NC Certification #483 SC Certification #98015
USACE-MRD Approved

Case Narrative

AAL Work Order # 3610

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 5 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 4°C.

2. Upon receipt, headspace was noted in all vials submitted for sample PE3171G for VOCs (25ml Purge) by SW8260B analysis. Therefore, the results should be considered estimated.

Brian G Burns — *March 03, 2003*
Brian Burns-***Receiving*** — Date
Receiving

VOC Notations:

1. The pH of the water samples was 7.0 prior to the VOC analysis.

Venkat R. Mudium — *March 03, 2003*
Venkat R. Mudium-***VOC Analyst*** — Date

These case narrative notations have been reviewed by:

David C. Fuller — *March 4, 2003*
David C. Fuller — Date
VP – Client Services

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NELAP Accredited Certificate #-E87429•Exp 6/30/03 Effective 7/01/02

Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3610

March 4, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: PE3171G
Sample Depth:

Sample ID 3610-001
Matrix: WATER

Date Collected: 02/28/2003 10:27
Date Received: 03/03/2003 13:15

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/03/03
Prep Time: 14:36

Analyst: Venkat Mudium
Date Analyzed: 03/03/03
Time Analyzed: 17:44

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	0.31	1.0	ug/L	J
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	0.83	1.0	ug/L	J

Summary of Analytical Results

Client ID: PE3171G
Sample Depth:

Sample ID 3610-001
Matrix: WATER

Date Collected: 02/28/2003 10:27
Date Received: 03/03/2003 13:15

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/03/03
Prep Time: 14:36

Analyst: Venkat Mudium
Date Analyzed: 03/03/03
Time Analyzed: 17:44

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	0.94	2.0	ug/L	J
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	13	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14575 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Venkat Mudium
Prep Method: SW5030B	Prep Date: 03/03/03	Date Analyzed: 03/03/03
	Prep Time: 14:36	Time Analyzed: 15:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID 14575 BLK	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Venkat Mudium
Prep Method: SW5030B	Prep Date: 03/03/03	Date Analyzed: 03/03/03
	Prep Time: 14:36	Time Analyzed: 15:59

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 03/04/03 09:07

Project ID: 796886

Work Order #: 3610

Lab Batch #: 15401 **Sample:** 14575 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.9	10.0	109	70-131	
Bromofluorobenzene	9.98	10.0	100	80-125	
Toluene-D8	9.73	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 14575 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.34	10.0	93	70-131	
Bromofluorobenzene	9.79	10.0	98	80-125	
Toluene-D8	9.70	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 14575 BSD / BSD **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	11.8	10.0	118	70-131	
Bromofluorobenzene	10.2	10.0	102	80-125	
Toluene-D8	9.70	10.0	97	84-120	

Lab Batch #: 15401 **Sample:** 3610-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171G

SURROGATE RECOVERY STUDY

VOCs (25ml Purge) by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.76	10.0	98	58-146	
Bromofluorobenzene	9.80	10.0	98	74-124	
Toluene-D8	9.49	10.0	95	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

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Case Narrative

AAL Work Order # 3645

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 7 report pages, and 2 QC surrogate recovery pages.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 4°C.

Brian G Burns — *March 7, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Debra Trinidad — *March 8, 2003*
Debra Trinidad — Date
VOC Analyst

These case narrative notations have been reviewed by:

March 11, 2003
David C. Fuller — Date
VP – Client Services

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Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3645

March 10, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: **PE3171H**
Sample Depth:

Sample ID **3645-001**
Matrix: WATER

Date Collected: 03/06/2003 13:10
Date Received: 03/07/2003 13:27

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/07/03
Prep Time: 10:45

Analyst: Debra Trinidad
Date Analyzed: 03/07/03
Time Analyzed: 19:08

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3166E**
Sample Depth:

Sample ID **3339-002**
Matrix: WATER

Date Collected: 01/21/2003 08:30
Date Received: 01/21/2003 11:10

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Debra Trinidad
Prep Date: 01/21/03
Prep Time: 14:55

Analyst: Debra Trinidad
Date Analyzed: 01/21/03
Time Analyzed: 19:05

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	4.2	10	ug/L	J
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171H**
Sample Depth:

Sample ID **3645-001**
Matrix: WATER

Date Collected: 03/06/2003 13:10
Date Received: 03/07/2003 13:27

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/07/03
Prep Time: 10:45

Analyst: Debra Trinidad
Date Analyzed: 03/07/03
Time Analyzed: 19:08

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	0.38	1.0	ug/L	J
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	0.60	1.0	ug/L	J
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.40	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171I**
Sample Depth:

Sample ID **3645-002**
Matrix: WATER

Date Collected: 03/07/2003 09:50
Date Received: 03/07/2003 13:27

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/07/03
Prep Time: 10:45

Analyst: Debra Trinidad
Date Analyzed: 03/07/03
Time Analyzed: 19:33

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171I**
Sample Depth:

Sample ID **3645-002**
Matrix: WATER

Date Collected: 03/07/2003 09:50
Date Received: 03/07/2003 13:27

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/07/03
Prep Time: 10:45

Analyst: Debra Trinidad
Date Analyzed: 03/07/03
Time Analyzed: 19:33

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	0.40	1.0	ug/L	J
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID **14619 BLK**	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 03/07/03	Date Analyzed: 03/07/03
	Prep Time: 10:45	Time Analyzed: 15:10

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	1.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID:	Sample ID **14619 BLK**	Date Collected:
Sample Depth:	Matrix: WATER	Date Received:

Analytical Method: SW8260LL	Prep Chemist: Venkat Mudium	Analyst: Debra Trinidad
Prep Method: SW5030B	Prep Date: 03/07/03	Date Analyzed: 03/07/03
	Prep Time: 10:45	Time Analyzed: 15:10

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	1.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	1.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 03/10/03 09:38

Project ID: 796886

Work Order #: 3645

Lab Batch #: 15470 **Sample:** 14619 BKS / BKS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.46	10.0	95	70-131	
Bromofluorobenzene	11.0	10.0	110	80-125	
Toluene-D8	10.4	10.0	104	84-120	

Lab Batch #: 15470 **Sample:** 14619 BLK / BLK **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:**

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	8.97	10.0	90	70-131	
Bromofluorobenzene	10.2	10.0	102	80-125	
Toluene-D8	10.5	10.0	105	84-120	

Lab Batch #: 15470 **Sample:** 3641-004 MS / MS **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 00000MW52110

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	8.86	10.0	89	58-146	
Bromofluorobenzene	10.2	10.0	102	74-124	
Toluene-D8	10.2	10.0	102	81-118	

Lab Batch #: 15470 **Sample:** 3641-004 MSD / MSD **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** 00000MW52110

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.99	10.0	100	58-146	
Bromofluorobenzene	11.0	10.0	110	74-124	
Toluene-D8	10.8	10.0	108	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: Fort McClellan

Report Date: 03/10/03 09:38

Project ID: 796886

Work Order #: 3645

Lab Batch #: 15470 **Sample:** 3645-001 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171H

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	10.6	10.0	106	58-146	
Bromofluorobenzene	10.4	10.0	104	74-124	
Toluene-D8	10.1	10.0	101	81-118	

Lab Batch #: 15470 **Sample:** 3645-002 / SMP **Batch:** 1 **Matrix:** WATER

Units: ug/L **Client-Id:** PE3171I

VOCs (25ml Purge) by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	9.94	10.0	99	58-146	
Bromofluorobenzene	10.3	10.0	103	74-124	
Toluene-D8	10.0	10.0	100	81-118	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
FL Certification #E87429 NC Certification #483 SC Certification #98015
USACE-MRD Approved

Case Narrative

AAL Work Order # 3667

Client Project: Fort McClellan / 796886

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 7 report pages, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Brian G Burns — *March 12, 2003*
Brian Burns — Date
Receiving

VOC Notations:

1. The pH of the water samples was <2.0 prior to the VOC analysis.

Venkat R. Mudium — *March 12, 2003*
Venkat R. Mudium — Date
VOC Analyst

These case narrative notations have been reviewed by:

March 13, 2003
David C. Fuller — Date
VP – Client Services

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Analytical Report for :

Shaw Environmental & Infracstructure, Inc.

Project Name : Fort McClellan

Project Number: 796886

Project Manager: Duane Nielsen

Lab. Work Order # : 3667

March 12, 2003

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: **PE3171J**
Sample Depth:

Sample ID **3667-001**
Matrix: WATER

Date Collected: 03/10/2003 13:25
Date Received: 03/11/2003 15:45

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/12/03
Prep Time: 08:56

Analyst: Venkat Mudium
Date Analyzed: 03/12/03
Time Analyzed: 10:39

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	<R.L.	1.0	ug/L	U
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	<R.L.	1.0	ug/L	U
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171J**
Sample Depth:

Sample ID **3667-001**
Matrix: WATER

Date Collected: 03/10/2003 13:25
Date Received: 03/11/2003 15:45

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/12/03
Prep Time: 08:56

Analyst: Venkat Mudium
Date Analyzed: 03/12/03
Time Analyzed: 10:39

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	<R.L.	1.0	ug/L	U
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	<R.L.	1.0	ug/L	U
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171K** | Sample ID **3667-002** | Date Collected: 03/11/2003 10:02
Sample Depth: | Matrix: WATER | Date Received: 03/11/2003 15:45

Analytical Method: SW8260LL | Prep Chemist: Venkat Mudium | Analyst: Venkat Mudium
Prep Method: SW5030B | Prep Date: 03/12/03 | Date Analyzed: 03/12/03
Prep Time: 08:56 | Time Analyzed: 11:04

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
1,1,1,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,1-Trichloroethane	<R.L.	1.0	ug/L	U
1,1,2,2-Tetrachloroethane	<R.L.	1.0	ug/L	U
1,1,2-Trichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethane	<R.L.	1.0	ug/L	U
1,1-Dichloroethene	<R.L.	1.0	ug/L	U
1,1-Dichloropropene	<R.L.	1.0	ug/L	U
1,2,3-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,3-Trichloropropane	<R.L.	1.0	ug/L	U
1,2,4-Trichlorobenzene	<R.L.	1.0	ug/L	U
1,2,4-Trimethylbenzene	<R.L.	1.0	ug/L	U
1,2-Dibromo-3-Chloropropane	<R.L.	2.0	ug/L	U
1,2-Dibromoethane	<R.L.	1.0	ug/L	U
1,2-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,2-Dichloroethane	<R.L.	1.0	ug/L	U
1,2-Dichloropropane	<R.L.	1.0	ug/L	U
1,3,5-trimethylbenzene	<R.L.	1.0	ug/L	U
1,3-Dichlorobenzene	<R.L.	1.0	ug/L	U
1,3-Dichloropropane	<R.L.	1.0	ug/L	U
1,4-Dichlorobenzene	<R.L.	1.0	ug/L	U
2,2-Dichloropropane	<R.L.	1.0	ug/L	U
2-Butanone	<R.L.	10	ug/L	U
2-Chlorotoluene	<R.L.	1.0	ug/L	U
2-Hexanone	<R.L.	10	ug/L	U
4-Chlorotoluene	<R.L.	1.0	ug/L	U
4-Methyl-2-Pentanone	<R.L.	10	ug/L	U
Acetone	<R.L.	10	ug/L	U
Benzene	<R.L.	1.0	ug/L	U
Bromobenzene	<R.L.	1.0	ug/L	U
Bromochloromethane	<R.L.	1.0	ug/L	U
Bromodichloromethane	<R.L.	1.0	ug/L	U
Bromoform	<R.L.	1.0	ug/L	U
Bromomethane	<R.L.	1.0	ug/L	U
Carbon Disulfide	<R.L.	1.0	ug/L	U
Carbon Tetrachloride	<R.L.	1.0	ug/L	U
Chlorobenzene	1.4	1.0	ug/L	
Chloroethane	<R.L.	1.0	ug/L	U
Chloroform	0.33	1.0	ug/L	J
Chloromethane	<R.L.	1.0	ug/L	U

Summary of Analytical Results

Client ID: **PE3171K**
Sample Depth:

Sample ID **3667-002**
Matrix: WATER

Date Collected: 03/11/2003 10:02
Date Received: 03/11/2003 15:45

Analytical Method: SW8260LL
Prep Method: SW5030B

Prep Chemist: Venkat Mudium
Prep Date: 03/12/03
Prep Time: 08:56

Analyst: Venkat Mudium
Date Analyzed: 03/12/03
Time Analyzed: 11:04

VOCs (25ml Purge) by SW8260B	Result	Rep Limit	Units	Qualifier
cis-1,2-Dichloroethene	<R.L.	1.0	ug/L	U
cis-1,3-Dichloropropene	<R.L.	1.0	ug/L	U
Dibromochloromethane	<R.L.	1.0	ug/L	U
Dibromomethane	<R.L.	1.0	ug/L	U
Dichlorodifluoromethane	<R.L.	1.0	ug/L	U
Ethylbenzene	<R.L.	1.0	ug/L	U
Hexachlorobutadiene	<R.L.	1.0	ug/L	U
Isopropylbenzene	<R.L.	1.0	ug/L	U
m,p-Xylene	<R.L.	2.0	ug/L	U
Methyl tert-butyl ether	<R.L.	1.0	ug/L	U
Methylene Chloride	<R.L.	2.0	ug/L	U
Naphthalene	<R.L.	1.0	ug/L	U
n-Butylbenzene	<R.L.	1.0	ug/L	U
n-Propylbenzene	<R.L.	1.0	ug/L	U
o-Xylene	<R.L.	1.0	ug/L	U
Isopropyltoluene	<R.L.	1.0	ug/L	U
Sec-Butylbenzene	<R.L.	1.0	ug/L	U
Styrene	<R.L.	1.0	ug/L	U
tert-Butylbenzene	<R.L.	1.0	ug/L	U
Tetrachloroethylene	<R.L.	1.0	ug/L	U
Toluene	2.2	1.0	ug/L	
trans-1,2-dichloroethene	<R.L.	1.0	ug/L	U
trans-1,3-dichloropropene	<R.L.	1.0	ug/L	U
Trichloroethene	0.63	1.0	ug/L	J
Trichlorofluoromethane	<R.L.	1.0	ug/L	U
Vinyl Chloride	<R.L.	1.0	ug/L	U