Field and Technical Services, LLC

DATE:

OCTOBER 16, 2006

FROM:

ANGELA GATCHIE

SUBJECT:

INORGANIC AND ORGANIC DATA EVALUATION - BTEX, SVOCs, PAHs, METALS

(Total and Dissolved), BROMIDE

GAINESVILLE

SAMPLE DELIVERY GROUP (SDG) - J0604617

SAMPLES:

4/Groundwaters/

FW6

DUP01

TRIPBLANK

EB02

Overview

The sample set for SDG J0604617 consists of 4 groundwater samples. One field duplicate pair was included in this SDG, (FW06/DUP01).

All samples were analyzed for select volatile organic compounds (VOCs), select semivolatile organic compounds (SVOCs), select total and dissolved metals, and bromide. The samples were collected by Field and Technical Services on 9/25/06 and analyzed by Columbia Analytical Services, Inc.

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
 - Holding Times
- Laboratory Method Blank Results
- Surrogate Recoveries
 - Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample
 - Field Duplicate Results
 - Field Blank Results

The symbol (*) indicates that all quality control criteria were met for this parameter.

Summary of Data Evaluation

- Total chromium, dissolved chromium, and dissolved zinc were detected in the equipment blank.
- Benzene had a % recovery greater than the qc limit in the matrix spike/matrix spike duplicate for sample FW6.
- 2-Methylphenol, 2,4-dimethylphenol, and acenaphthylene results in the duplicate pair FW-06/DUP01 had RPDs greater than 30%.

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VOCs - SW846 8260B

Benzene had a % recovery greater than the qc limit in the matrix spike/matrix spike duplicate for sample FW6. No qualifications were made based on the MS/MSD alone.

SVOCs - SW846 8270C

No qualifications were made to this fraction.

Metals - SW846 6020

The following analytes were detected in the aqueous equipment blank from 9/25/06 at the following concentrations:

	Maximum	Blank
<u>Analyte</u>	<u>Concentration</u>	Action Level
Total Chromium	0.00089 mg/L	0.00445 mg/L
Dissolved Chromium	0.00067 mg/L	0.00335 mg/L
Dissolved Zinc	0.005 mg/L	0.025 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for field blank contamination. Associated samples with concentrations below the blank action level were qualified with a "B" for field blank contamination.

Field Duplicate Precision

FIELD DUPLICATE PRECISION

ANALYTE	FW-06	DUP01	RPD
Benzene	4.7	4.8	2.11
Toluene	0.89	0.9	1.12
Ethylbenzene	0.43	0.45	4.55
m,p-Xylenes	2.6	2.9	10.91
o-Xylene	1	1.1	9.52
2-Methylphenol	3.3	1.7	64.00
2,4-Dimethylphenol	11	6.3	54.34
Naphthalene	520	550	5.61
2-Methylnaphthalene	25	24	4.08
Acenaphthylene	0.86	0.6	35.62
Acenaphthene	62	58	6.67
Dibenzofuran	37	33	11.43
Fluorene	45	44	2.25
Phenanthrene	68	66	2.99
Anthracene	5.1	4.3	17.02
Carbazole	24	22	8.70
Fluoranthene	24	21	13.33
Pyrene	11	11	0.00
Benzo(a)anthracene	0.82	0.77	6.29
Chrysene	0.7	0.75	6.90
Diss Arsenic	0.0012	0.00092	26.42
Diss Chromium	0.00095	0.00089	6.52
Diss Zinc	0.0028	0.0037	27.69

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Field Duplicate Precision Cont.

2-Methylphenol, 2,4-dimethylphenol, and acenaphthylene results in the duplicate pair FW-06/DUP01 will be qualified as estimated, "J", because of field duplicate RPD greater than 30%.

Angela Gatchie Field and Technical Services Database and QA/QC Manager

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Volatile Organic Compounds by GC/MS

Sample Name:

FW6-092506

Lab Code:

J0604617-001

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

•				Dilution	Date	Date	Extraction	•
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Benzene	4.7	1.0	0.088	1	09/28/06	09/28/06	JWG0603038	
Toluene	0.89 I	1.0	0.13	1	09/28/06	09/28/06	JWG0603038	*
Ethylbenzene	0.43 I	1.0	0.12	1	09/28/06	09/28/06	JWG0603038	
m,p-Xylenes	2.6	2.0	0.19	1	09/28/06	09/28/06	JWG0603038	
o-Xylene	1.0	1.0	0.083	1	09/28/06	09/28/06	JWG0603038	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	·
1,2-Dichloroethane-d4	106	71-122	09/28/06	Acceptable	
4-Bromofluorobenzene	85	79-120	09/28/06	Acceptable	
Toluene-d8	111	88-117	09/28/06	Acceptable	
Dibromofluoromethane	106	82-116	09/28/06	Acceptable	

Comments:

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SuperSet Reference: RR13479

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Volatile Organic Compounds by GC/MS

Sample Name:

DUP01-092506

Lab Code:

J0604617-002

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	4.8	1.0	0.088	1	09/28/06	09/28/06	JWG0603038	
Toluene	0.90 I	1.0	0.13	1	09/28/06	09/28/06	JWG0603038	
Ethylbenzene	0.45 I	1.0	0.12	1	09/28/06	09/28/06	JWG0603038	
m,p-Xylenes	2.9	2.0	0.19	1	09/28/06	09/28/06	JWG0603038	
o-Xylene	1.1	1.0	0.083	1	09/28/06	09/28/06	JWG0603038	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,2-Dichloroethane-d4	107	71-122	09/28/06	Acceptable	
4-Bromofluorobenzene	87	79-120	09/28/06	Acceptable	
Toluene-d8	112	88-117	09/28/06	Acceptable	
Dibromofluoromethane	107	82-116	09/28/06	Acceptable	

Comments:

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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Volatile Organic Compounds by GC/MS

Sample Name:

TRIP BLANK

Lab Code:

J0604617-003

Units: ug/L Basis: NA

Extraction Method:

EPA 5030B

Level: Low

Analysis Method:

8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND U	1.0	0.088	1	09/28/06	09/28/06	JWG0603038	
Toluene	ND U	1.0	0.13	1	09/28/06	09/28/06	JWG0603038	
Ethylbenzene	ND U	1.0	0.12	1	09/28/06	09/28/06	JWG0603038	
m,p-Xylenes	ND U	2.0	0.19	1	09/28/06	09/28/06	JWG0603038	
o-Xylene	ND U	1.0	0.083	1	09/28/06	09/28/06	JWG0603038	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,2-Dichloroethane-d4	107	71-122	09/28/06	Acceptable	
4-Bromofluorobenzene	88	79-120	09/28/06	Acceptable	i .
Toluene-d8	112	88-117	09/28/06	Acceptable	•
Dibromofluoromethane	109	82-116	09/28/06	Acceptable	

Comments:

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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Volatile Organic Compounds by GC/MS

Sample Name:

EB02-092506

Lab Code:

J0604617-004

EPA 5030B

Extraction Method: Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Benzene	ND U	1.0	0.088	1	09/28/06	09/28/06	JWG0603038	
Toluene	ND U	1.0	0.13	1	09/28/06	09/28/06	JWG0603038	
Ethylbenzene	ND U	1.0	0.12	1	09/28/06	09/28/06	JWG0603038	
m,p-Xylenes	ND U	2.0	0.19	1	09/28/06	09/28/06	JWG0603038	
o-Xylene	ND U	1.0	0.083	1	09/28/06	09/28/06	JWG0603038	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,2-Dichloroethane-d4	107	71-122	09/28/06	Acceptable	
4-Bromofluorobenzene	88	79-120	09/28/06	Acceptable	
Toluene-d8	110	88-117	09/28/06	Acceptable	
Dibromofluoromethane	108	82-116	09/28/06	Acceptable	

Comments:

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Form 1A - Organic

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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

FW6-092506

Lab Code:

J0604617-001

Extraction Method:

EPA 3510C

Analysis Method:

8270C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Phenol	ND U	5.9	2.0	1	10/02/06	10/05/06	JWG0603140	
2-Methylphenol	3.3 A J	5.9	0.52	1	10/02/06	10/05/06	JWG0603140	
4-Methylphenol†	ND U	5.9	0.85	1	10/02/06	10/05/06	JWG0603140	
2,4-Dimethylphenol	11 J	5.9	0.62	1	10/02/06	10/05/06	JWG0603140	
Naphthalene	520	59	4.8	10	10/02/06	10/06/06	JWG0603140	
2-Methylnaphthalene	25	5.9	0.49	1	10/02/06	10/05/06	JWG0603140	
Acenaphthylene	ك 🔏 0.86	5.9	0.40	1	10/02/06	10/05/06	JWG0603140	
Acenaphthene	62	5.9	0.38	1	10/02/06	10/05/06	JWG0603140	
Dibenzofuran	37	5.9	0.52	1	10/02/06	10/05/06	JWG0603140	
Fluorene	45	5.9	0.42	1	10/02/06	10/05/06	JWG0603140	
Pentachlorophenol	ND U	24	0.46	1	10/02/06	10/05/06	JWG0603140	
Phenanthrene	68	5.9	0.31	1.	10/02/06	10/05/06	JWG0603140	
Anthracene	5.1 I	5.9	0.31	1	10/02/06	10/05/06	JWG0603140	
Carbazole	24	5.9	0.64	1	10/02/06	10/05/06	JWG0603140	
Fluoranthene	24	5.9	0.31	1	10/02/06	10/05/06	JWG0603140	
Pyrene	11	5.9	0.50	1	10/02/06	10/05/06	JWG0603140	
Benz(a)anthracene	0.82 I	5.9	0.66	1	10/02/06	10/05/06	JWG0603140	
Chrysene	0.70 I	5.9	0.60	1	10/02/06	10/05/06	JWG0603140	
Benzo(b)fluoranthene	ND U	5.9	0.68	1	10/02/06	10/05/06	JWG0603140	
Benzo(k)fluoranthene	ND U	5.9	0.67	1	10/02/06	10/05/06	JWG0603140	
Benzo(a)pyrene	ND U	5.9	0.64	1	10/02/06	10/05/06	JWG0603140	
Indeno(1,2,3-cd)pyrene	ND U	5.9	0.62	1	10/02/06	10/05/06	JWG0603140	
Dibenz(a,h)anthracene	ND U	5.9	0.66	1	10/02/06	10/05/06	JWG0603140	
Benzo(g,h,i)perylene	ND U	5.9	0.57	1	10/02/06	10/05/06	JWG0603140	

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Comments	:
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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006 **Date Received:** 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:

FW6-092506

J0604617-001

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	38	10-77	10/05/06	Acceptable
Phenol-d6	26	10-51	10/05/06	Acceptable
Nitrobenzene-d5	85	42-106	10/05/06	Acceptable
2-Fluorobiphenyl	74	43-99	10/05/06	Acceptable
2,4,6-Tribromophenol	104	30-141	10/05/06	Acceptable
Terphenyl-d14	98	23-165	10/05/06	Acceptable

† Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Comments:

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SuperSet Reference: RR13588

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

DUP01-092506

Lab Code:

J0604617-002

Extraction Method:

EPA 3510C

Analysis Method:

8270C

Units: ug/L Basis: NA

Level: Low

Analyte Name Result Q MRL MDL Factor Extracted Analyzed Lot Note Phenol ND U 5.6 1.9 1 10/02/06 10/05/06 1WG0603140 2-Methylphenol 1.7 X √ 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 4-Methylphenol† ND U 5.6 0.82 1 10/02/06 10/05/06 JWG0603140 2,4-Dimethylphenol 6.3 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 2-Methylnaphthalene 550 56 4.6 10 10/02/06 10/05/06 JWG0603140 2-Methylnaphthalene 0.60 X √ 5.6 0.38 1 10/02/06 10/05/06 JWG0603140 Acenaphthene 58 5.6 0.38 1 10/02/06 10/05/06 JWG0603140 Dibenzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 <th>· ·</th> <th></th> <th></th> <th></th> <th>Dilution</th> <th>Date</th> <th>Date</th> <th>Extraction</th> <th></th>	· ·				Dilution	Date	Date	Extraction	
2-Methylphenol 1.7	Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
4-Methylphenol† ND U 5.6 0.82 1 10/02/06 10/05/06 JWG0603140 2,4-Dimethylphenol 6.3	Phenol	ND U	5.6	1.9	1	10/02/06	10/05/06	JWG0603140	
2,4-Dimethylphenol 6.3 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Naphthalene 550 56 4.6 10 10/02/06 10/06/06 JWG0603140 2-Methylnaphthalene 24 5.6 0.47 1 10/02/06 10/05/06 JWG0603140 Acenaphthylene 0.60 X 5.6 0.38 1 10/02/06 10/05/06 JWG0603140 Acenaphthene 58 5.6 0.36 1 10/02/06 10/05/06 JWG0603140 Piborzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Fluorene 44 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.62 1	2-Methylphenol	1.7 X J	5.6	0.49	1	10/02/06	10/05/06	JWG0603140	
Naphthalene 550 56 4.6 10 10/02/06 10/06/06 JWG0603140 2-Methylnaphthalene 24 5.6 0.47 1 10/02/06 10/05/06 JWG0603140 Acenaphthylene 0.60	4-Methylphenol†	ND U	5.6	0.82	1	10/02/06	10/05/06	JWG0603140	
2-Methylnaphthalene 24 5.6 0.47 1 10/02/06 10/05/06 JWG0603140 Acenaphthylene 0.60 X 5.6 0.38 1 10/02/06 10/05/06 JWG0603140 Acenaphthene 58 5.6 0.36 1 10/02/06 10/05/06 JWG0603140 Dibenzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Fluorene 44 5.6 0.40 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.63 1 10/0	2,4-Dimethylphenol	6.3 J	5.6	0.59	1	10/02/06	10/05/06	JWG0603140	
Acenaphthylene 0.60 X 5.6 0.38 1 10/02/06 10/05/06 JWG0603140 Acenaphthene 58 5.6 0.36 1 10/02/06 10/05/06 JWG0603140 Dibenzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Fluorene 44 5.6 0.40 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.75 I 5.6 0.63 1 10	Naphthalene				10		10/06/06		
Acenaphthene 58 5.6 0.36 1 10/02/06 10/05/06 JWG0603140 Dibenzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Fluorene 44 5.6 0.40 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.63	2-Methylnaphthalene	24	5.6	0.47	1	10/02/06	10/05/06	JWG0603140	
Dibenzofuran 33 5.6 0.49 1 10/02/06 10/05/06 JWG0603140 Fluorene 44 5.6 0.40 1 10/02/06 10/05/06 JWG0603140 Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 <th< td=""><td>Acenaphthylene</td><td></td><td>5.6</td><td></td><td>1</td><td>10/02/06</td><td>10/05/06</td><td>JWG0603140</td><td></td></th<>	Acenaphthylene		5.6		1	10/02/06	10/05/06	JWG0603140	
Pilorene	Acenaphthene	58		0.36	1	10/02/06	10/05/06	JWG0603140	
Pentachlorophenol ND U 23 0.44 1 10/02/06 10/05/06 JWG0603140 Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benza(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1	Dibenzofuran	33	5.6	0.49	1	10/02/06	10/05/06	JWG0603140	
Phenanthrene 66 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benza(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.59 1 <td>Fluorene</td> <td>44</td> <td></td> <td>0.40</td> <td>1</td> <td>10/02/06</td> <td>10/05/06</td> <td>JWG0603140</td> <td></td>	Fluorene	44		0.40	1	10/02/06	10/05/06	JWG0603140	
Anthracene 4.3 I 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.63	Pentachlorophenol	ND U	23	0.44	1	10/02/06	10/05/06	JWG0603140	
Carbazole 22 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 <tr< td=""><td>Phenanthrene</td><td>66</td><td>5.6</td><td>0.29</td><td>1</td><td>10/02/06</td><td>10/05/06</td><td>JWG0603140</td><td></td></tr<>	Phenanthrene	66	5.6	0.29	1	10/02/06	10/05/06	JWG0603140	
Fluoranthene 21 5.6 0.29 1 10/02/06 10/05/06 JWG0603140 Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140		4.3 I		0.29	1	10/02/06	10/05/06	JWG0603140	
Pyrene 11 5.6 0.48 1 10/02/06 10/05/06 JWG0603140 Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Carbazole	22	5.6	0.62	1	10/02/06	10/05/06	JWG0603140	
Benz(a)anthracene 0.77 I 5.6 0.63 1 10/02/06 10/05/06 JWG0603140 Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Fluoranthene	21	5.6	0.29	1	10/02/06	10/05/06	JWG0603140	
Chrysene 0.75 I 5.6 0.57 1 10/02/06 10/05/06 JWG0603140 Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Pyrene	11		0.48	1	10/02/06	10/05/06	JWG0603140	
Benzo(b)fluoranthene ND U 5.6 0.65 1 10/02/06 10/05/06 JWG0603140 Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Benz(a)anthracene	0.77 I	5.6	0.63	1	10/02/06	10/05/06	JWG0603140	
Benzo(k)fluoranthene ND U 5.6 0.64 1 10/02/06 10/05/06 JWG0603140 Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Chrysene	0.75 I	5.6	0.57	1	10/02/06	10/05/06	JWG0603140	
Benzo(a)pyrene ND U 5.6 0.62 1 10/02/06 10/05/06 JWG0603140 Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Benzo(b)fluoranthene	ND U	5.6	0.65	1	10/02/06	10/05/06	JWG0603140	
Indeno(1,2,3-cd)pyrene ND U 5.6 0.59 1 10/02/06 10/05/06 JWG0603140 Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Benzo(k)fluoranthene	ND U	5.6	0.64	1	10/02/06	10/05/06	JWG0603140	
Dibenz(a,h)anthracene ND U 5.6 0.63 1 10/02/06 10/05/06 JWG0603140	Benzo(a)pyrene	ND U	5.6	0.62	1	10/02/06	10/05/06	JWG0603140	
					1	10/02/06	10/05/06		
Benzo(g,h,i)perylene ND U 5.6 0.55 1 10/02/06 10/05/06 JWG0603140	Dibenz(a,h)anthracene	ND U	5.6	0.63	1	10/02/06	10/05/06	JWG0603140	
	Benzo(g,h,i)perylene	ND U	5.6	0.55	1	10/02/06	10/05/06	JWG0603140	

Comments:

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Form 1A - Organic

1 of 2

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006

Date Received: 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

DUP01-092506

Lab Code:

J0604617-002

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	36	10-77	10/05/06	Acceptable	
Phenol-d6	19	10-51	10/05/06	Acceptable	
Nitrobenzene-d5	82	42-106	10/05/06	Acceptable	
2-Fluorobiphenyl	65	43-99	10/05/06	Acceptable	
2,4,6-Tribromophenol	93	30-141	10/05/06	Acceptable	
Terphenyl-d14	95	23-165	10/05/06	Acceptable	

† Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Comments:

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Form 1A - Organic

SuperSet Reference: RR13588

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006 **Date Received:** 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

EB02-092506

Lab Code:

J0604617-004

Extraction Method:

EPA 3510C

Analysis Method:

8270C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	O 1	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	<u> </u>	5.9	2.0	1	10/02/06	10/05/06	JWG0603140	11010
2-Methylphenol	ND		5.9	0.52	1	10/02/06	10/05/06	JWG0603140	
4-Methylphenol†		U	5.9	0.85	1	10/02/06	10/05/06	JWG0603140	
2,4-Dimethylphenol	ND	U .	5.9	0.62	1	10/02/06	10/05/06	JWG0603140	
Naphthalene	ND	U	5.9	0.48	1	10/02/06	10/05/06	JWG0603140	
2-Methylnaphthalene	ND	U	5.9	0.49	1	10/02/06	10/05/06	JWG0603140	
Acenaphthylene	ND		5.9	0.40	1 .	10/02/06	10/05/06	JWG0603140	
Acenaphthene	ND	U	5.9	0.38	1	10/02/06	10/05/06	JWG0603140	
Dibenzofuran	ND	U	5.9	0.52	1	10/02/06	10/05/06	JWG0603140	
Fluorene	ND	U	5.9	0.42	1	10/02/06	10/05/06	JWG0603140	
Pentachlorophenol	ND	U	24	0.46	1	10/02/06	10/05/06	JWG0603140	
Phenanthrene	ND	U	5.9	0.31	1	10/02/06	10/05/06	JWG0603140	
Anthracene	ND	U	5.9	0.31	1	10/02/06	10/05/06	JWG0603140	
Carbazole	ND	U	5.9	0.64	1	10/02/06	10/05/06	JWG0603140	
Fluoranthene	ND	U	5.9	0.31	1	10/02/06	10/05/06	JWG0603140	
Pyrene	ND	U	5.9	0.50	1	10/02/06	10/05/06	JWG0603140	
Benz(a)anthracene	ND	U	5.9	0.66	1	10/02/06	10/05/06	JWG0603140	
Chrysene	ND	U	5.9	0.60	1 .	10/02/06	10/05/06	JWG0603140	
Benzo(b)fluoranthene	ND	U	5.9	0.68	1	10/02/06	10/05/06	JWG0603140	
Benzo(k)fluoranthene	ND	U	5.9	0.67	1	10/02/06	10/05/06	JWG0603140	
Benzo(a)pyrene	ND	U	5.9	0.64	1	10/02/06	10/05/06	JWG0603140	
Indeno(1,2,3-cd)pyrene	ND		5.9	0.62	1	10/02/06	10/05/06	JWG0603140	
Dibenz(a,h)anthracene	ND '		5.9	0.66	1	10/02/06	10/05/06	JWG0603140	
Benzo(g,h,i)perylene	ND	U	5.9	0.57	1	10/02/06	10/05/06	JWG0603140	

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Comments:	

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Form 1A - Organic

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1 of 2

SuperSet Reference: RR13588

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: 09/25/2006 **Date Received:** 09/26/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

EB02-092506

Lab Code:

J0604617-004

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	30	10-77	10/05/06	Acceptable	
Phenol-d6	18	10-51	10/05/06	Acceptable	
Nitrobenzene-d5	61	42-106	10/05/06	Acceptable	
2-Fluorobiphenyl	66	43-99	10/05/06	Acceptable	
2,4,6-Tribromophenol	85	30-141	10/05/06	Acceptable	
Terphenyl-d14	97	23-165	10/05/06	Acceptable	

† Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Comments:

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Form 1A - Organic

SuperSet Reference: RR13588

Analytical Report

Client:

Beazer East, Inc.

Project Name: Project Number: Gainesville/Floridan

Matrix:

045006 WATER Service Request:

J0604617

Date Collected:

9/25/2006

Date Received:

9/26/2006

Total Metals

Sample Name:

FW6-092506

Lab Code:

J0604617-001

Units:

mg/L

Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	10/02/2006	10/03/2006	0.0012	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	10/02/2006	10/03/2006	0.00095	1 B
Copper	EPA 3020A	6020	0.0020	0.00029	1.0	10/02/2006	10/03/2006	U	
Zinc	EPA 3020A	6020	0.010	0.0017	1.0	10/02/2006	10/03/2006	0.0028	i

Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Matrix:

045006

WATER

Service Request:

J0604617

Date Collected:

9/25/2006

Date Received:

9/26/2006

Total Metals

Sample Name:

DUP01-092506

Lab Code:

J0604617-002

Units:

mg/L

Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	10/02/2006	10/03/2006	0.00092	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	10/02/2006	10/03/2006	0.00089	13
Copper	EPA 3020A	6020	0.0020	0.00029	1.0	10/02/2006	10/03/2006	U	
Zinc	EPA 3020A	6020	0.010	0.0017	1.0	10/02/2006	10/03/2006	0.0037	i.

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Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Matrix:

045006

WATER

Service Request:

J0604617

Date Collected:

9/25/2006

Date Received:

9/26/2006

Total Metals

Sample Name:

EB02-092506

Lab Code:

J0604617-004

Units: Basis: mg/L N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	10/02/2006	10/03/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	10/02/2006	10/03/2006	0.00089	i
Copper	EPA 3020A	6020	0.0020	0.00029	1.0	10/02/2006	10/03/2006	U	
Zinc	EPA 3020A	6020	0.010	0.0017	1.0	10/02/2006	10/03/2006	U	

10/12/20

Analytical Report

Client:

Beazer East, Inc.

Project Name: Project Number: Gainesville/Floridan

Matrix:

045006 WATER Service Request:

J0604617

Date Collected: Date Received: 9/25/2006 9/26/2006

Dissolved Metals

Sample Name:

FW6-092506

Lab Code:

J0604617-001

Units: Basis: mg/L N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	09/27/2006	10/02/2006	0.00097	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	09/27/2006	09/29/2006	0.00086	1 B
Copper	EPA 3005A	6020	0.0020	0.00029	1.0	09/27/2006	09/29/2006	0.00036	i
Zinc	EPA 3005A	6020	0.010	0.0017	1.0	09/27/2006	09/29/2006	0.023	B

Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number:

045006

Matrix: W

WATER

Service Request:

J0604617

Date Collected:

9/25/2006

Date Received:

9/26/2006

Dissolved Metals

Sample Name:

DUP01-092506

Lab Code:

J0604617-002

Units: mg/L

Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	09/27/2006	10/02/2006	0:00079	,
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	09/27/2006	09/29/2006	0.00083	XB
Copper	EPA 3005A	6020	0.0020	0.00029	1.0	09/27/2006	09/29/2006	U	
Zinc	EPA 3005A	6020	0.010	0.0017	1.0	09/27/2006	09/29/2006	0.0031	XB

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Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Matrix:

045006

WATER

Service Request:

J0604617

Date Collected:

9/25/2006

Date Received:

9/26/2006

Dissolved Metals

Sample Name:

EB02-092506

Lab Code:

Units: Basis:

mg/L N/A

J0604617-004

Analyte · ·	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	09/27/2006	10/02/2006	U	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	09/27/2006	09/29/2006	0.00067	i
Copper	EPA 3005A	6020	0.0020	0.00029	1.0	09/27/2006	09/29/2006	U	
Zinc	EPA 3005A	6020	0.010	0.0017	1.0	09/27/2006	09/29/2006	0.0050	i

Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: 045006 Sample Matrix: WATER

Service Request: J0604617

Date Collected: 09/25/06 Date Received: 09/26/06

Bromide

Analysis Method: 300.0

Test Notes:

Units: mg/L (ppm)

Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
FW6-092506	J0604617-001	0.4	0.11	1	09/27/06 14:27	U	
DUP01-092506	J0604617-002	0.4	0.11	1.	09/27/06 14:27	U	
EB02-092506	J0604617-004	0.4	0.11	1	09/27/06 14:27	U	
Method Blank	J0604617-MB	0.4	0.11	1	09/27/06 14:27	U 🗸	



October 09, 2006

Service Request No: J0604617

Angela Gatchie Field and Technical Services, LLC 200 Third Avenue Carnegie, PA 15106

RE: Gainesville/Floridan/045006

Dear Angela:

Enclosed are the results of the sample(s) submitted to our laboratory on September 26, 2006. For your reference, these analyses have been assigned our service request number J0604617.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 289. You may also contact me via email at TKissinger@jax.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

an / lissing

Tom Kissinger

Project Chemist

Laboratory Manager: Greg Jordan

Quality Assurance Officer: Kathy Brungard

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/07. Other state accreditations include: Arkansas, #88-0600 valid through 1/12/06; Georgia, #904 valid through 6/30/07; Louisiana, #02086 valid through 6/30/07; Texas, #T104704197-06-TX valid through 5/31/07; North Carolina, #527 valid through 12/31/06; and South Carolina, #96021001 valid through 6/30/07.

Client:

Field and Technical Services, LLC

Service Request No.:

J0604617

Project:

Gainesville/Floridan

Date Received:

9/26/06

Sample Matrix:

water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

4 water samples were received for analysis at Columbia Analytical Services on 9/26/06. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

Matrix Spike Recovery Exceptions

The matrix spike recovery of Benzene for sample FW6-092506 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Semivolatile Organics by GC-MS

Batch OC Notes and Discussion

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No problems were observed with this delivery group.

Metals by ICP-MS

Batch QC Notes and Discussion

Quality control samples for all parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

Batch QC Notes and Discussion

Quality control samples for Bromide (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE

OF

HNO3 H2SO4 NaOH Zn. Acetate MeOH NaHSO4 REMARKS/ ALTERNATE DESCRIPTION ANYOICE INFORMATION Other Printed Name Date/Time BILL TO: Signature IV. Data Validation Report with Raw Data V. Speicalized Forms / Custom Report ANALYSIS REQUESTED (Include Method Number and Con (LCS, DUP, MS/MSD as required) REPORT REQUIREMENTS III. Results + QC and Calibration II. Results + QC Sumnaries RELINQUISHED BY Yes I. Results Only Printed Name Date/Time TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) RECEIVED BY REQUESTED REPORT DATE REQUESTED FAX DATE PRESERVATIVE z CUSTODY SEALS: Y NUMBER OF CONTAINERS OS RELINQUISHED BY 3 MATRIX (412) 279-4332 900560 9290 0924 020 EAMER SAMPLING DATE TIME Printed Name 9 GP Date/Time Signature 15/06 Project Number RECEIVED BY Email Address Date/Tim9/25/06 LAB ID AVE SAMPLE RECEIPT: CONDITION/COOLER TEMP: Printed Name GAINESVINE /FLURIDAN KAREN FRMME Krano 1900 SPECIAL INSTRUCTIONS/COMMENTS 414/279-3363 Duran-092506 200 HR CLIENT SAMPLE ID ERO2-09250E CARNEGIE FW6-092576 RELINQUISHED BY TRIPRIANK See QAPP 38

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Clien

SCOC-01/12/06-07

Florida DEP Data Qualifiers

- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- H Value based on field kit determination; results may not be accurate.
- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value (one of the following reasons is discussed in the project case narrative).
 - 1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
 - 2. No known quality control criteria exists for the component.
 - 3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
 - 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
 - 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
- K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
- L Off scale high. The analyte is above the upper limit of the linear calibration range.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
- N Presumptive evidence of the analyte. Confirmation was not performed.
- Q Sample held beyond the accepted holding time.
- T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample.
- Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Client: Project: Field and Technical Services, LLC

Gainesville/Floridan/045006

Service Request: J0604617

SAMPLE CROSS-REFERENCE

SAMPLE#	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
J0604617-001	FW6-092506	09/25/06	09:24
J0604617-002	DUP01-092506	09/25/06	00:00
J0604617-003	TRIP BLANK	09/25/06	00:00
J0604617 - 004	EB02-092506	09/25/06	07:30

Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name:

Method Blank

Lab Code:

JWG0603038-4

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Benzene	ND U	1.0	0.088	1	09/28/06	09/28/06	JWG0603038	
Toluene	ND U	1.0	0.13	1	09/28/06	09/28/06	JWG0603038	
Ethylbenzene	ND U	1.0	0.12	1	09/28/06	09/28/06	JWG0603038	
m,p-Xylenes	ND U	2.0	0.19	1	09/28/06	09/28/06	JWG0603038	
o-Xylene	ND U	1.0	0.083	1	09/28/06	09/28/06	JWG0603038	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,2-Dichloroethane-d4	108	71-122	09/28/06	Acceptable	
4-Bromofluorobenzene	91	79-120	09/28/06	Acceptable	
Toluene-d8	112	88-117	09/28/06	Acceptable	
Dibromofluoromethane	111	82-116	09/28/06	Acceptable	

Comments:

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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:

Method Blank

Lab Code:

JWG0603140-3

Extraction Method:

EPA 3510C

Analysis Method:

8270C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Phenol	ND U	5.0	1.7	1	10/02/06	10/06/06	JWG0603140	
2-Methylphenol	ND U	5.0	0.44	1	10/02/06	10/06/06	JWG0603140	
4-Methylphenol†	ND U	5.0	0.73	1	10/02/06	10/06/06	JWG0603140	
2,4-Dimethylphenol	ND U	5.0	0.53	1	10/02/06	10/06/06	JWG0603140	
Naphthalene	ND U	5.0	0.41	1	10/02/06	10/06/06	JWG0603140	
2-Methylnaphthalene	ND U	5.0	0.42	1.	10/02/06	10/06/06	JWG0603140	
Acenaphthylene	ND U	5.0	0.34	1	10/02/06	10/06/06	JWG0603140	
Acenaphthene	ND U	5.0	0.32	1	10/02/06	10/06/06	JWG0603140	
Dibenzofuran	ND U	5.0	0.44	1.	10/02/06	10/06/06	JWG0603140	
Fluorene	ND U	5.0	0.36	1	10/02/06	10/06/06	JWG0603140	
Pentachlorophenol	ND U	20	0.39	1	10/02/06	10/06/06	JWG0603140	
Phenanthrene	ND U	5.0	0.26	1	10/02/06	10/06/06	JWG0603140	
Anthracene	ND U	5.0	0.26	1	10/02/06	10/06/06	JWG0603140	
Carbazole	ND U	5.0	0.55	1	10/02/06	10/06/06	JWG0603140	
Fluoranthene	ND U	5.0	0.26	1	10/02/06	10/06/06	JWG0603140	
Pyrene	ND U	5.0	0.43	1	10/02/06	10/06/06	JWG0603140	
Benz(a)anthracene	ND U	5.0	0.56	1	10/02/06	10/06/06	JWG0603140	
Chrysene	ND U	5.0	0.51	1	10/02/06	10/06/06	JWG0603140	
Benzo(b)fluoranthene	ND Ü	5.0	0.58	1	10/02/06	10/06/06	JWG0603140	
Benzo(k)fluoranthene	ND U	5.0	0.57	1	10/02/06	10/06/06	JWG0603140	
Benzo(a)pyrene	ND U	5.0	0.55	1	10/02/06	10/06/06	JWG0603140	
Indeno(1,2,3-cd)pyrene	ND U	5.0	0.53	1	10/02/06	10/06/06	JWG0603140	
Dibenz(a,h)anthracene	ND U	5.0	0.56	1	10/02/06	10/06/06	JWG0603140	
Benzo(g,h,i)perylene	ND U	5.0	0.49	1	10/02/06	10/06/06	JWG0603140	

Comments:

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Form 1A - Organic

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Analytical Results

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Lab Code: Method Blank

JWG0603140-3

Units: ug/L Basis: NA

				*		
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note		
2-Fluorophenol	32	10-77	10/06/06	Acceptable		
Phenol-d6	.23	10-51	10/06/06	Acceptable		
Nitrobenzene-d5	52	42-106	10/06/06	Acceptable		
2-Fluorobiphenyl	61	43-99	10/06/06	Acceptable		
2,4,6-Tribromophenol	100	30-141	10/06/06	Acceptable		
Terphenyl-d14	86	23-165	10/06/06	Acceptable		

† Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Comments:

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Form 1A - Organic

Bage 8

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SuperSet Reference: RR13588

Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Matrix:

045006 WATER Service Request: J0604617

Date Collected: N/A

Date Received: N/A

Total Metals

Sample Name: Lab Code:

Method Blank MB3-1002

Units: mg/L Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	10/02/2006	10/03/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	10/02/2006	10/03/2006	U	
Copper	EPA 3020A	6020	0.0020	0.00029	1.0	10/02/2006	10/03/2006	U	
Zinc	EPA 3020A	6020	0.010	0.0017	1.0	10/02/2006	10/03/2006	U	÷

Analytical Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Matrix:

045006 WATER Service Request:

J0604617

Date Collected:

N/A Date Received: N/A

Dissolved Metals

Sample Name: Lab Code:

Method Blank

MB4-0927

Units: Basis:

mg/L N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	09/27/2006	10/02/2006	U	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	09/27/2006	09/29/2006	U .	•
Copper	EPA 3005A	6020	0.0020	0.00029	1.0	09/27/2006	09/29/2006	U	
Zinc	EPA 3005A	6020	0.010	0.0017	1.0	09/27/2006	09/29/2006	U	

QA/QC Report

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Surrogate Recovery Summary Volatile Organic Compounds by GC/MS

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: PERCENT

Level: Low

		·			
Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
FW6-092506	Ј0604617-001	106	85	111	106
DUP01-092506	J0604617-002	107	87	112	107
TRIP BLANK	J0604617-003	107	88	112	109
EB02-092506	J0604617-004	107	88	110	108
Method Blank	JWG0603038-4	108	91	112	111
FW6-092506MS	JWG0603038-1	106	86	108	107
FW6-092506DMS	JWG0603038-2	109	89	110	109
Lab Control Sample	JWG0603038-3	107	93	115	114

Surrogate Recovery Control Limits (%)

. —	
71-122	
79-120	
88-117	
82-116	
	79-120 88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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QA/QC Report

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Extracted: 09/28/2006

Date Analyzed: 09/28/2006

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds by GC/MS

Sample Name:

FW6-092506

Lab Code:

J0604617-001

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: JWG0603038

FW6-092506MS JWG0603038-1

FW6-092506DMS JWG0603038-2

Matrix Spike **Duplicate Matrix Spike RPD** Sample %Rec Result %Rec Limits **RPD** Limit %Rec Result **Expected** Result Expected Analyte Name 4.7 29.4 20.0 124 * 31.0 20.0 (131 78-123 5 30 Benzene 109 23.9 20.0 86-119 5 0.89 22.7 20.0 115 30 Toluene 87-122 22.5 20.0 110 23.6 20.0 5 30 Ethylbenzene 0.43 116 112 m,p-Xylenes 2.6 45.0 40.0 106 47.4 40.0 82-120 5 30 o-Xylene 1.0 21.8 20.0 104 23.1 20.0 110 85-119 6 30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Extracted: 09/28/2006

Date Analyzed: 09/28/2006

Lab Control Spike Summary

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Volatile Organic Compounds by GC/MS

Units: ug/L

Basis: NA

Level: Low Extraction Lot: JWG0603038

Lab Control Sample

JWG0603038-3 Lab Control Spike

				%Rec	
Analyte Name	Result	Expected	%Rec	Limits	
Benzene	22.9	20.0	115	79-119	
Toluene	20.5	20.0	103	86-117	
Ethylbenzene	20.8	20.0	104	90-118	
m,p-Xylenes	38.8	40.0	97	86-121	•
o-Xylene	19.8	20.0	99	89-119	

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

SuperSet Reference:

1 of

RR13479

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QA/QC Report

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Surrogate Recovery Summary Semi-Volatile Organic Compounds by GC/MS

Extraction Method:

EPA 3510C

Analysis Method:

8270C

Units: PERCENT

Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6
FW6-092506	J0604617-001	38	26	85	74	104	98
DUP01-092506	J0604617-002	36	19	82	65	93	95
EB02-092506	J0604617-004	30	18	61	66	85	97
Method Blank	JWG0603140-3	32	23	52	61	100	86
Lab Control Sample	JWG0603140-1	45	27	73	74	121	96
Duplicate Lab Control Sample	JWG0603140-2	62	34	85	77	100	97

Surrogate Recovery Control Limits (%)

	. ,			
Sur1 = 2-Fluorophenol		10-77	Sur5 = 2,4,6-Tribromophenol	30-141
Sur2 = Phenol-d6		10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5		42-106		
Sur4 = 2-Fluorobiphenyl	2 ⁹⁴	43-99		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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QA/QC Report

Client:

Beazer East, Inc.

Project:

Gainesville/Floridan/045006

Sample Matrix:

Water

Service Request: J0604617

Date Extracted: 10/02/2006 Date Analyzed: 10/06/2006 -

10/09/2006

Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C

Analysis Method:

8270C

Units: ug/L Basis: NA

Level: Low

Extraction Lot: JWG0603140

Lab Control Sample JWG0603140-1

Duplicate Lab Control Sample JWG0603140-2

	Lab	Control Spik	e		e Lab Control	Spike	%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Phenol	15.8	50.0	32	18.6	50.0	37	12-54	16	30
2-Methylphenol	31.0	50.0	62	37.2	50.0	74	21-100	18	30
4-Methylphenol	55.2	75.0	74	62.5	75.0	83	15-93	12	30
2,4-Dimethylphenol	36.5	50.0	73	35 . 5	50.0	71	38-86	3	30
Naphthalene	39.5	50.0	79	39.8	50.0	80	44-97	- 1	30
2-Methylnaphthalene	39.3	50.0	79	38.0	50.0	. 76	46-97	3	30
Acenaphthylene	40.9	50.0	82	42.0	50.0	84	45-99	3	30
Acenaphthene	41.6	50.0	83	42.6	50.0	85	42-106	2	30
Dibenzofuran	44.0	50.0	88	43.1	50.0	86	49-103	2	30
Fluorene	44.1	50.0	88	44.0	50.0	88	54-97	0	30
Pentachlorophenol	45.9	50.0	92	39.5	50.0	79	44-120	15	30
Phenanthrene	47.3	50.0	95	47.9	50.0	96	52-99	1	30
Anthracene	49.2	50.0	98	50.7	50.0	101	52-104	3	30
Carbazole	46.0	50.0	92	48.9	50.0	98	48-118	6	30
Fluoranthene	47.7	50.0	95	47.0	50.0	94	52-110	1	30
Pyrene	45.9	50.0	92	47.0	50.0	94	53-100	2	30
Benz(a)anthracene	46.3	50.0	93	47.7	50.0	95	49-114	3	30
Chrysene	48.4	50.0	97	49.9	50.0	100	50-113	3	30
Benzo(b)fluoranthene	47.0	50.0	94	42.5	50.0	85	56-103	10	30
Benzo(k)fluoranthene	43.8	50.0	88	50.2	50.0	100	48-110	14	30
Benzo(a)pyrene	49.8	50.0	100	51.5	50.0	103	56-107	3	30
Indeno(1,2,3-cd)pyrene	44.6	50.0	89	46.1	50.0	92	54-115	3 .	30
Dibenz(a,h)anthracene	47.1	50.0	94	47.5	50.0	95	51-125	1	30
Benzo(g,h,i)perylene	45.3	50.0	91	48.6	50.0	97	53-116	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: 045006 Matrix:

WATER

Service Request: J0604617

Date Collected: N/A

Date Received: N/A

Date Extracted: 10/02/2006

Date Analyzed: 10/03/2006

Laboratory Control Sample Summary

Total Metals

Sample Name:

Lab Control Sample

Lab Code:

LCS3-1002

Units: mg/L

Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.05	0.050	100	80 - 120	
Chromium	EPA 3020A	6020	0.0020	0.05	0.049	98	80 - 120	
Copper	EPA 3020A	6020	0.0020	0.05	0.047	94	80 - 120	
Zinc	EPA 3020A	6020	0.010	0.1	0.10	100	80 - 120	

QA/QC Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: 045006 Matrix:

WATER

Service Request: J0604617

Date Collected: N/A

Date Received: N/A

Date Extracted: 09/27/2006

Date Analyzed: 10/02/2006

Laboratory Control Sample Summary

Dissolved Metals

Sample Name:

Lab Control Sample

Lab Code:

LCS4-0927

Units: mg/L

Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.05	0.050	100	80 - 120	
Chromium	EPA 3005A	6020	0.0020	0.05	0.049	98	80 - 120	
Copper	EPA 3005A	6020	0.0020	0.05	0.048	96	80 - 120	
Zinc	EPA 3005A	6020	0.010	0.1	0.100	100	80 - 120	

QA/QC Report

Client:

Beazer East, Inc.

Project Name:

Gainesville/Floridan

Project Number: Sample Matrix:

045006

WATER

Service Request: J0604617

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: 09/27/06

Laboratory Control Sample Summary

Inorganic Parameters

Sample Name:

Laboratory Control Sample .

Lab Code:

J0604617-LCS

Units: mg/L (ppm)

Basis: NA

Test Notes:

CAS Percent Recovery Percent Acceptance Prep Analysis Result Method Method True Value Result Recovery Limits Notes

- Bromide

Analyte

None

300.0

10

9.75

90-110

Columbia Analytical Services, Inc.

			Cooler Re	cerpt an	id Preservation	FOLII			
Client:	FIS) / 		Service Reque	est#	SIL	0(+		
Project:	Gard	sville J	Hgridan			mat d		i .	~)
Cooler rece	ived on	420	.06		and opened or	190.00	by	KLE	
COURIER:	CAS	UPS	FEDEX	DHL	CLIENT	Tracking #		,,,-,,	
1	Were cust	ody seals o	n outside of co	ooler?			Yes)	No	N/A
2	Were seal	s intact, sig	ned and dated	?			Yes	No	N/A
3	Were cust	ody papers	properly filled	d out?		σ	X es)	No	N/A
4	Temperature	e of cooler(s)	upon receipt	(Should b	e 4 +/- 2 degrees C)			<u> </u>	
5	Correct Te	emperature	?				Yes	No	N/A
6	Were Ice	or Ice Pack	s present				Yes)	No	N/A
7	Did all bo	ttles arrive	in good condi	tion (unl	broken, etc)?		y es	No	N/A
8	Were all b	ottle labels	s complete (sar	nple ID,	, preservation, e	tc)?	Yes	No	N/A
9	Did all bo	ttle labels a	and tags agree	with cus	stody papers?		Yes	No	N/A
10	Were the	correct bott	tles used for th	e tests i	indicated?		Yes?	No	N/A
11	Were all of	the preserved	bottles received	with the a	ppropriate preserva	ative?	Yes	No	N/A .
	•	Iditions noted be	low	c2/NaOH		6H>12	I pH≈2		N//
12		•		-	nolding times?		Yes	No	N/A
13				ir bubbles	? If present, note b	elow	Yes ⁷	No	N/A
14	Where did	the bottle	s originate?			•	CAS ^X	Client	
	1		_	Manu	if. Lot # or CAS		*	*,*,* 1	
	San	ple ID	Reagent		Chem ID	ml added	11	nititials	
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Additional	comments	and/or expl	anation of all	discrepa	ncies noted abo	ve:			
Client appr	oval to run	samnles if	discrepancies	noted.				Date: 6	
CITOTIL ADDIT	\cup Y a_1 a_2 a_3 a_4	COTATION IT	COLON CHATTOTOR		1.0				

SR#: JCACHE | Pate: Date: Grand Meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

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