West Virginia Department of Environmental Protection
Office of Environmental Remediation
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0455

VRP NO.	04506
SITE NAME	PQS #5117-Etowah
LOCATION	Barlow Road-Charleston

Additional Site Characterization

November 2003

Volume 2 of 2

Shaw™ Shaw Environmental, Inc.

Project No. 845335
PQS Tax ID No. 76-0200625

ADDITIONAL SITE CHARACTERIZATION
FORMER PENNZOIL-QUAKER STATE
ETOWAH TERMINAL
1015 BARLOW DRIVE
CHARLESTON, WEST VIRGINIA
VCP No. 04505

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ENVIRONMENTAL REMEDIATION

Prepared for:

Pennzoil-Quaker State Company
700 Milam
Houston, Texas 77252-2967

Prepared by:

Shaw Environmental, Inc.
1400-B Ohio Avenue
Dunbar, West Virginia 25064
www.shawgrp.com

November 2003
(Volume II of II)

APPENDIX A

SOIL BORING LOGS

Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Soil Boring ID: SB-1

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 20'
Total Hole Depth: 24'
Logged by: KEC
Checked by: GAR
Date: 07/17/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
			Ground Surface						
0–1	GW		GRAVEL AND BRICK, little silt. Fill.	1	0-2'	24"/24"	1110	24.8	*
1–2	ML		Gray SILT, little clay, trace sand, moist, medium stiff, petroleum odor.						
2–4	ML		Brown, Mottled, Gray, Clayey SILT, moist, very stiff, petroleum odor.	2	2-8'	72"/24"	1120	86.4	*
4–8	ML		Brown, Mottled, Gray SILT, little clay, trace sand, moist, medium stiff, petroleum odor.	3	8-10'	12"/24"	1130	105	
8–12				4	10-12'	12"/24"	1131	183	
12–15	CL		Brown, Mottled, Gray, Silty CLAY, trace sand, moist, medium stiff, petroleum odor.	5	12-14'	14"/24"	1140	616	
15–19	SM		Gray, Silty, Fine to Medium SAND, moist, soft, petroleum odor.	6	14-16'	14"/24"	1141	1547	
				7	16-18'	16"/24"	1150	1285	
				8	18-20'	16"/24"	1151	68.4	*
19–20	SP		Brown, Mottled, Gray, Fine to Medium SAND, some silt, very moist, dense, petroleum odor.						
20–24	SP		Brown, Mottled, Gray, Fine to Medium SAND, with sandstone gravel, little silt, wet, dense, petroleum odor.						
24	CL		Gray, Sandy CLAY, moist, very stiff, petroleum odor.						
			TD=24'						
			End of Borehole						

TMW/SB ID: TMW/SB-3S

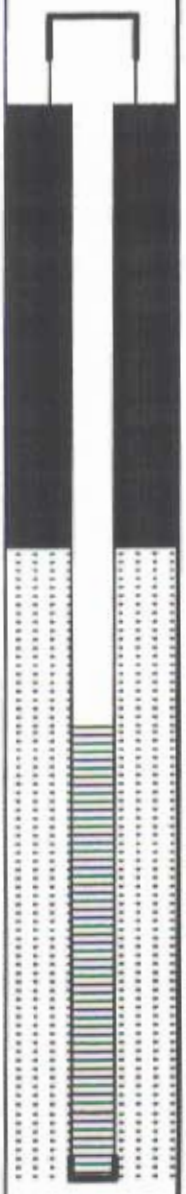
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 7.5'
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/16/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-1									
0			Ground Surface						
			ASPHALT and CONCRETE pavement.						
1	CL		Dark brown, silty CLAY, some silt, some gravel, moist, medium stiff, petroleum odor.	1	0-2'	24"/24"	1100	36.7*	
2									
3	CL		Brown, mottled, gray, silty CLAY, some silt, moist, medium stiff, petroleum odor.						
4									
5				2	2-7.5'	66"/66"	1110	1113*	
6									
7	CL		Brown, mottled, gray, silty CLAY, some silt, wet, medium stiff, sheen, petroleum odor.						
8									
9									
10									
11	ML		Brown, mottled, gray, clayey SILT, some clay, little sand, wet, medium stiff, sheen, petroleum odor.						
12			TD=12'						
			End of Borehole						
13									
14									



TMW/SB ID: TMW/SB-3D

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 28'
Total Hole Depth: 32'
Logged by: KEC
Checked by: GAR
Date: 07/17/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
			Ground Surface						
0–1	CL		ASPHALT and CONCRETE pavement.						
1–3	CL		Dark brown, silty CLAY, some silt, some gravel, moist, medium stiff, petroleum odor.	1	0-2'	12"/24"	0750	31.8	
3–7	CL		Brown, mottled, gray, silty CLAY, some silt, moist, medium stiff, petroleum odor.	2	2-8'	60"/72"	0800	663	
7–10	CL		Brown, mottled, gray, silty CLAY, some silt, wet, medium stiff, petroleum odor, sheen.	3	8-10'	24"/24"	0812	501	
10–11	ML		Brown, mottled, gray, clayey SILT, some clay, little sand, very moist, soft, petroleum odor.	4	10-12'	24"/24"	0814	906	
11–12	ML			5	12-14'	14"/24"	0821	990	
12–14	ML		Brown, clayey SILT, some clay, some sand, very moist, soft, petroleum odor.	6	14-16'	14"/24"	0822	1718	
14–16	SP		Brown, clayey SILT, some clay, some sand, moist, medium stiff, petroleum odor.	7	16-18'	12"/24"	0833	996	
16–18	SP		Gray, fine to medium SAND, some silt, moist, dense, petroleum odor.	8	18-20'	12"/24"	0834	2260	
18–20	SP		Gray, fine to medium SAND with some sandstone gravel, trace silt, moist, dense, petroleum odor.	9	20-22'	18"/24"	0906	55.3	
20–22	SP		Gray, silty, fine to medium SAND, little silt, very moist, medium stiff, petroleum odor.	10	22-24'	18"/24"	0908	51.5	
22–24	SP		Gray, silty, fine to medium SAND, little silt, damp, medium stiff, slight petroleum odor.	11	24-26'	20"/24"	0934	19.9	
24–26	SP			12	26-28'	20"/24"	0936	12.6*	
26–32	SP		Gray, fine to medium SAND, trace silt, wet, loose.						
32			TD=32'						
32–36			End of Borehole						

Soil Boring Logs

Soil Boring ID: SB-4

Shaw Environmental & Infrastructure, Inc.

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 24'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/16/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
1	CL		ASPHALT and CONCRETE Pavement.						
			Gray, Silty CLAY, some silt, some gravel, moist, medium stiff, slight petroleum odor. Fill.	1	0-2'	18"/24"	0830	11.8	*
2									
3	CL		Brown, Mottled, Gray, Silty CLAY, trace sandstone gravel, moist, medium stiff.						
4									
5				2	2-8'	60"/72"	0842	11.1	*
6									
7									
8									
9				3	8-10'	22"/24"	0857	11.3	
10									
11				4	10-12'	22"/24"	0900	11.7	
12									
13	CL		Brown, Silty CLAY, some silt, little sand, moist, medium stiff.	5	12-14'	22"/24"	0911	12.3	
14									
15				6	14-16'	22"/24"	0912	11.2	
16	SM		Brown, Fine to Medium SAND, some silt, moist.						
17				7	16-18'	24"/24"	0929	8.4	
18									
19				8	18-20'	24"/24"	0931	10.1	
20									
21	ML		Gray, Clayey SILT, some clay, moist, soft.	9	20-22'	24"/24"	0958	12.1	
22									
23				10	22-24'	24"/24"	1000	13.4	*
24	ML		Gray, Clayey SILT, some clay, wet, soft.						
25	SM		Brown, Fine to Medium SAND, some silt, wet, dense.						
26									
27			TD=26'						
28			End of Borehole						
29									

Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Soil Boring ID: SB-5

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 8.0'
Logged by: KEC
Checked by: GAR
Date: 07/15/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
			ASPHALT and CONCRETE Pavement.						
	ML		Brown, Sandy SILT, some gravel, moist, dense.	1	0-2'	18"/24"	1318	5.2	*
1	ML		Gray, Sandy SILT, some sand, trace gravel, very moist, soft, slight petroleum odor.						
2									
3	ML		Brown, Sandy SILT, moist, medium stiff, some sand.						
4									
5				2	2-8'	64"/72"	1327	4.7	*
6	ML		Brown, Mottled, Gray, Clayey SILT, little sand, little organic matter, moist, medium stiff.						
7									
8			End of Borehole						
9									
10									

Soil Boring Logs

Shaw Stone Environmental & Infrastructure, Inc.

Soil Boring ID: SB-6

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 8'
Logged by: KEC
Checked by: GAR
Date: 07/15/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
			ASPHALT, CONCRETE, and Rebar PAVEMENT.						
	SM		Gray, Silty, Fine to Medium SAND, some silt, some gravel, moist, dense, petroleum odor.	1	0-2'	20"/24"	1517	18.6	*
1									
2	CL		Gray, Silty CLAY, little sand, moist, medium stiff, petroleum odor.						
3									
	ML		Brown, Sandy SILT, some sand, moist, medium stiff.						
4									
5				2	2-8'	64"/72"	1527	3.7	*
6									
7									
8			End of Borehole						
9									

TMW/SB ID: TMW/SB-7S

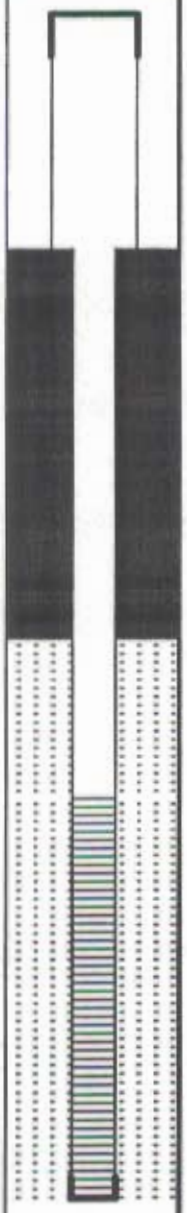
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 8'
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/15/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-3, -2, -1									
0			Ground Surface						
0–3	ML		Brown, sandy SILT, some sand, trace gravel, moist, medium stiff, slight petroleum odor.	1	0-2'	18"/24'	1613	1.7*	
3–6	ML		Brown, sandy SILT, some sand, little clay, little gravel, moist, medium stiff, petroleum odor.	2	2-8'	64"/72"	1622	124*	
6–8	CL		Brown, mottled, gray, silty CLAY, some silt, trace sand, moist, medium stiff, petroleum odor.						
8–12	CL		Brown, mottled, gray, silty CLAY, some silt, trace sand, wet, medium stiff, sheen, petroleum odor.						
12			TD=12'						
13, 14			End of Borehole						



TMW/SB ID: TMW/SB-7D

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 36'
Total Hole Depth: 42'
Logged by: KEC
Checked by: GAR
Date: 07/23/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
			Ground Surface						
0–1	ML		Brown, sandy SILT, some sand, trace gravel, moist, medium stiff, slight petroleum odor.	1	0-2'	18"/24"	1433	2.0	
2–3	ML		Brown, sandy SILT, some sand, little clay, little gravel, moist, medium stiff, petroleum odor.	2	2-4'	18"/24"	1435	117	
4–5				3	4-6'	22"/24"	1442	142	
6–7	CL		Brown, mottled, gray, silty CLAY, some silt, trace sand, moist, medium stiff, petroleum odor.	4	6-8'	22"/24"	1444	138	
8–9	CL			5	8-10'	24"/24"	1451	241	
10–11	CL		Brown, mottled, gray, silty CLAY, some silt, trace sand, very damp, medium stiff, sheen, petroleum odor.	6	10-12'	24"/24"	1453	281	
12–13				7	12-14'	20"/24"	1503	309	
14–15			Brown, mottled, gray, silty CLAY, some silt, little sand, moist, medium stiff, petroleum odor.	8	14-16'	20"/24"	1505	448	
16–17				9	16-18'	24"/24"	1520	193	
18–19	CL			10	18-20'	24"/24"	1522	252	
20–21	SP		Brown, mottled, gray, silty CLAY, some silt, little sand, little sandstone gravel, moist, medium stiff, petroleum odor.	11	20-22'	10"/24"	1550	111	
22–23				12	22-24'	10"/24"	1551	117	
24–25	SP		Brown, fine to medium SAND with trace sandstone gravel, moist, medium stiff, petroleum odor.	13	24-26'	12"/24"	1615	71.1	
26–27	SP		Brown, mottled, gray, silty, fine to medium SAND, little silt, moist, medium stiff.	14	26-28'	12"/24"	1617	15.1	
28–29	SP		Brown, fine to medium SAND, trace silt, moist, loose.	15	28-30'	8"/24"	1630	20.2	
30–31				16	30-32'	10"/24"	1715	14.1	
32–33			Brown, fine to medium SAND, moist, dense.	17	32-34'	18"/24"	1742	9.8	
34–35				18	34-36'	18"/24"	1745	8.4*	
36–37	SP		Brown, fine to medium SAND, wet, loose.						
38–39									
40–41	SP		Brown, silty SAND, little silt, wet, soft.						
42–43			TD=42'						
44–46			End of Borehole						

Soil Boring Logs

Soil Boring ID: SB-8

Shaw Environmental & Infrastructure, Inc.

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 8.0'
Logged by: KEC
Checked by: GAR
Date: 07/16/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
			Ground Surface						
0			ASPHALT and GRAVEL PAVEMENT.						
1	CL		Brown, mottled, gray, silty CLAY, some silt, some gravel, moist, medium stiff.	1	0-2'	24"/24"	1338	13.0	*
2	CL		Brown SILT, little clay, little organic matter, moist, medium stiff.						
3									
4	ML		Brown SILT, little clay, trace sand, moist, medium stiff.						
5				2	2-8'	68"/72"	1348	13.8	*
6									
7									
8			TD=8'						
			End of Borehole						
9									

Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Soil Boring ID: SB-9

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 4'
Total Hole Depth: 8'
Logged by: KEC
Checked by: GAR
Date: 07/17/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
			COAL and GRAVEL with sand, moist, loose. Fill.						
1				1	0-2'	20"/24"	1415	24.2	*
	CL		Brown, mottled, gray, silty CLAY, some silt, some gravel, very moist, medium stiff, petroleum odor.						
2	CL		Brown, mottled, gray, silty CLAY, some silt, very moist, medium stiff, petroleum odor, sheen.						
3				2	2-4'	20"/24"	1425	57.1	*
4	CL		Brown, mottled, gray, silty CLAY, some silt, wet, medium stiff, sheen, petroleum odor.						
5									
6									
7									
8			TD=8'						
			End of Borehole						
9									

Soil Boring Logs

Soil Boring ID: SB-10

Shaw Environmental & Infrastructure, Inc.

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 12'
Total Hole Depth: 16'
Logged by: KEC
Checked by: GAR
Date: 07/14/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
	ML		Brown, sandy SILT, some sand, some gravel, some organic matter, moist, medium stiff.						
	ML		Brown, sandy SILT, little sand, moist, medium stiff.	1	0-2'	24"/24"	0948	3.3	*
2									
3			CONCRETE fragments.						
	SP		Brown, fine to medium SAND, little silt, moist, loose.						
4									
5				2	2-8'	20"/72"	1020	1.9	*
6									
7									
8									
9				3	8-10'	12"/24"	1025	2.1	
10	CL		Brown, silty CLAY, some silt, little sand, moist, medium stiff.						
11				4	10-12'	12"/24"	1027	1.1	*
12	SP		Brown, fine to medium SAND, little silt, very moist, loose.						
13	SP		Brown, fine to medium SAND, wet, dense.						
14	SP		Gray, fine to medium SAND, wet, dense, petroleum odor.						
			Brown, fine to medium SAND, wet, dense.						
15									
16			TD=16'						
17			End of Borehole						
18									

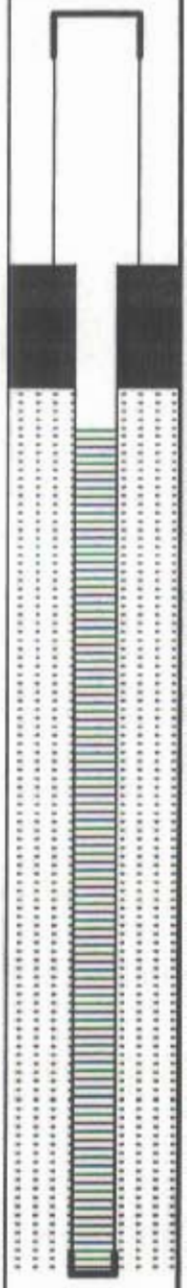
TMW/SB ID: TMW/SB-11

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 4'
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/14/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-3, -2, -1									
0			Ground Surface						
0	ML		Brown, sandy SILT, some sand, trace gravel, some organic matter, moist, medium dense.						
0.5	ML		Brown, sandy SILT, some sand, moist, medium stiff.	1	0-2'	16"/24"	1055	2.2	
3	ML		Brown, sandy SILT, some sand, trace gravel, moist, medium stiff.	2	2-4'	20"/24"	1057	8.5*	
4	ML		Brown, sandy SILT, some sand, wet, soft.	3	4-6'	12"/24"	1110		
7				4	6-8'	12"/24"	1111		
8	ML		Gray, sandy SILT, some sand, wet, soft, sheen, petroleum odor.	5	8-10'	12"/24"	1117		
10	CL		Gray, sandy CLAY, some sand, some silt, very moist, medium stiff.	6	10-12'	12"/24"	1119		
12			TD=12'						
13			End of Borehole						

TMW/SB ID: TMW/SB-12

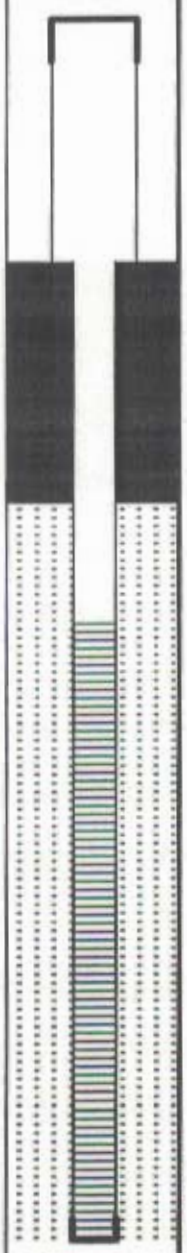
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 4'
Total Hole Depth: 8'
Logged by: KEC
Checked by: GAR
Date: 07/14/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-2, -1									
0			Ground Surface						
0	ML		Brown, sandy SILT, some sand, trace gravel, some organic matter, moist, medium stiff.						
0.5	ML		Brown, sandy SILT, some sand, moist, medium stiff.	1	0-2'	16"/24"	1152	3.2	
2.5	SP		GRAVEL, little sand, little silt, moist, dense.	2	2-4'	16"/24"	1154	2.4*	
3.5	ML		Brown, sandy SILT, very moist, medium stiff.						
4	ML		Gray, sandy SILT, some sand, wet, soft, sheen, petroleum odor.						
8			TD=8'						
			End of Borehole						
9									



TMW/SB ID: TMW/SB-13

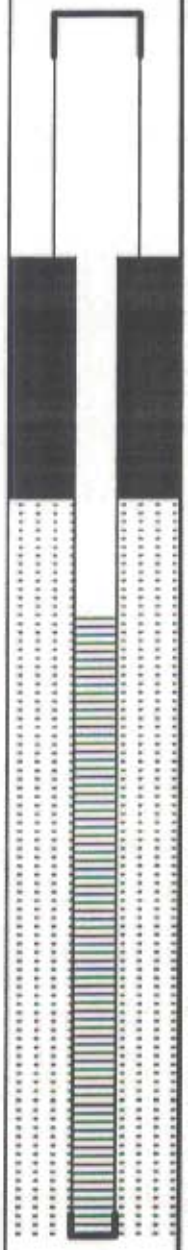
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 12'
Total Hole Depth: 16'
Logged by: KEC
Checked by: GAR
Date: 07/15/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
			Ground Surface						
0–1	ML		Brown, sandy SILT, some sand, some gravel, moist, medium stiff. (Fill).	1	0-2'	18"/24"	1045	7.2	
2–4	SM		Brown, silty, fine to medium SAND, some silt, with gravel (including coal fragments), moist, loose. (Fill).	2	2-4'	18"/24"	1047	6.3	
5–6	ML		Gray, sandy SILT, some sand, trace brick fragments and gravel, moist, soft, petroleum odor. (Fill).	3	4-6'	12"/24"	1053	9.8	
7				4	6-8'	12"/24"	1055	45.2	
8–9	ML		Gray, sandy SILT, some sand, very moist, soft, petroleum odor.	5	8-10'	16"/24"	1105	9.8	
10–11				6	10-12'	16"/24"	1107	68*	
12–13	ML		Gray, sandy SILT, some sand, wet, soft, petroleum odor.						
14–15	SP		Brown, fine to medium SAND, trace silt, wet, dense.						
16			TD=16'						
17–18			End of Borehole						



TMW/SB ID: TMW/SB-14

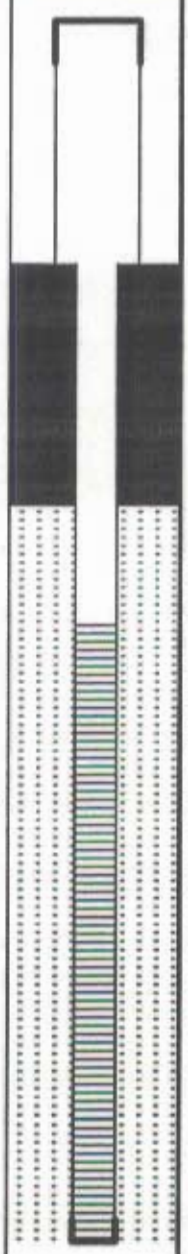
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 10'
Total Hole Depth: 16'
Logged by: KEC
Checked by: GAR
Date: 07/15/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
			Ground Surface						
0–1	ML		Brown, sandy SILT, some sand, little gravel and brick, moist, medium stiff. (Fill).	1	0-2'	18"/24"	0945	3.1	
2–3	SM		Brown, silty, fine to medium SAND, some silt, moist, soft. (Fill).	2	2-4'	18"/24"	0946	2.3	
4–5	GW		BRICK fragments. (Fill).	3	4-6'	8"/24"	0953	3.0	
6–7	ML		Gray, sandy SILT, some sand, moist, soft, petroleum odor.	4	6-8'	8"/24"	0955	870	
8–9				5	8-10'	16"/24"	1005	1514*	
10–11	ML		Gray, sandy SILT, some sand, wet, soft, petroleum odor.						
12–15	SP		Orangish-brown, fine to medium SAND, trace silt, wet, dense, petroleum odor.						
16			TD=16'						
17–18			End of Borehole						



Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Soil Boring ID: SB-15

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 12'
Total Hole Depth: 16'
Logged by: KEC
Checked by: GAR
Date: 07/15/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
			Ground Surface						
0–2	ML		Brown, sandy SILT, some sand, trace gravel, moist, medium stiff.	1	0-2'	20"/24"	0842	3.0	*
3–4	SM		Brown, silty, fine to medium SAND, some silt, trace sandstone, moist, soft.						
5–6	ML		Brown, sandy SILT, some sand, moist, soft.	2	2-8'	64"/72"	0852	2.8	*
7–8	ML		Gray, sandy SILT, some sand, very moist, soft, petroleum odor.						
9–10				3	8-10'	20"/24"	0900	875	
11				4	10-12'	20"/24"	0903	820	*
12	SP SP		Brown, fine to medium SAND, trace silt, moist, dense, petroleum odor.						
13–15			Orangish-brown, fine to medium SAND, wet, dense, petroleum odor.						
16			TD=16'						
17–18			End of Borehole						

TMW/SB ID: TMW/SB-16

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 16'
Total Hole Depth: 20'
Logged by: KEC
Checked by: GAR
Date: 07/15/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-1									
0			Ground Surface						
0	ML		Brown, sandy SILT, some sand, trace organic matter, trace gravel, moist, medium stiff.	1	0-2'	22"/24"	0735	1.0	
1									
2									
3				2	2-4'	22"/24"	0737	0.7	
4	SM		Brown, silty, fine to medium SAND, some silt, moist, loose.						
4	ML		Gray, sandy SILT, some sand, very moist, soft, petroleum odor.	3	4-6'	20"/24"	0745	88.2	
5									
6									
7				4	6-8'	20"/24"	0747	466	
8									
9				5	8-10'	20"/24"	0753	399	
10	SP		Brown, fine to medium SAND, trace silt, moist, dense, petroleum odor.						
11				6	10-12'	20"/24"	0754	588	
12									
13				7	12-14'	18"/24"	0803	376	
14	SP		Gray, fine to medium SAND, trace silt, very moist, dense, petroleum odor.						
15				8	14-16'	18"/24"	0805	802*	
16	SP		Gray, fine to medium SAND, trace silt, wet, dense, sheen, petroleum odor.						
17									
18				9	16-20'	18"/24"	0809	----	
19									
20			TD=20'						
1			End of Borehole						
22									
23									

TMW/SB ID: TMW/SB-17

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 12'
Total Hole Depth: 17'
Logged by: KEC
Checked by: GAR
Date: 07/14/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-3, -2, -1									
0			Ground Surface						
0–4	ML		Brown, sandy SILT, some sand, trace gravel, moist, medium stiff.	1	0-2'	20"/24"	1505	3.3	
2–4				2	2-4'	20"/24"	1507	2.9	
4–6	ML		Brown, sandy SILT, some sand, moist, soft, iron-staining.	3	4-6'	20"/24"	1513	268	
6–9	ML		Gray, sandy SILT, some sand, moist, soft, petroleum odor.	4	6-8'	20"/24"	1515	239	
8–9				5	8-10'	20"/24"	1521	38.7	
9–10	SM		Gray, fine to medium SAND, some silt, very moist, dense, petroleum odor.						
10–11	SM		Gray to brown, fine to medium SAND, some silt, very moist, dense, petroleum odor.	6	10-12'	20"/24"	1522	449*	
11–12	SP		Gray to brown, fine to medium SAND, little silt, wet, dense.						
12–16				7	12-16'	20"/24"	1526	-----	
16–17									
17			TD=17'						
18			End of Borehole						
19, 20									

TMW/SB ID: TMW/SB-18

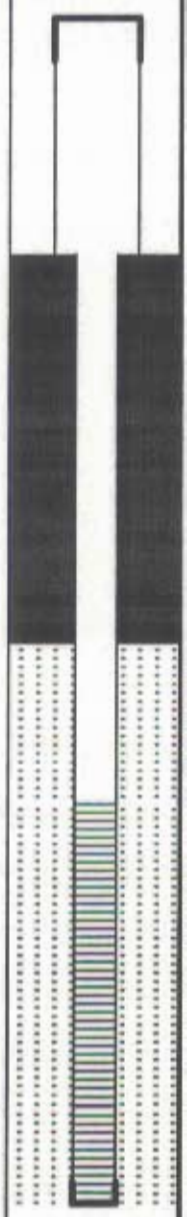
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 8'
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/14/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-3, -2, -1									
0			Ground Surface						
0–3	ML		Brown, sandy SILT, some sand, little gravel, moist, medium stiff.	1	0-2'	16"/24"	1415	2.5	
3				2	2-4'	16"/24"	1417	2.1	
4–6	SP		Brown, fine to medium SAND, little gravel, trace silt, moist, loose.	3	4-6'	14"/24"	1424	1.7	
7	ML		Brown, sandy SILT, some sand, little gravel, moist, soft.	4	6-8'	14"/24"	1425	1.9*	
8–12	SP		Gray, silty, fine to medium SAND, little silt, wet, loose, petroleum odor.	5	8-12'	18"/24"	1428	-----	
12			TD=12'						
13, 14			End of Borehole						



Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Soil Boring ID: SB-19

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: 6'
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/14/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
			Ground Surface						
0	ML		Brown, sandy SILT, some sand, moist, medium stiff.						
1				1	0-2'	18"/24"	1330	1.3	*
2									
3									
4	SP		Brown, silty, fine to medium SAND, little silt, moist, soft.	2	2-6'	38"/48"	1344	1.2	*
5									
6	SP		Brown, silty, fine to medium SAND, little silt, wet, soft.						
7	SP		Gray, silty, fine to medium SAND, little silt, wet, soft, sheen, petroleum odor.						
8									
9									
10	SP		Brown, fine to medium SAND, trace silt, wet, dense.						
11									
12			TD=12'						
			End of Borehole						
13									

TMW/SB ID: TMW/SB-20

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 16'
Total Hole Depth: 20'
Logged by: KEC
Checked by: GAR
Date: 07/21/03
****Samples submitted to lab***

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-8 -7 -6 -5 -4 -3 -2 -1									
0			Ground Surface						
1	ML		Brown, sandy SILT, some sand, little gravel, moist, medium stiff.	1	0-2'	24"/24"	1150	1.7	
2	ML								
3	ML		Brown, sandy SILT, some sand, moist, medium stiff.	2	2-4'	24"/24"	1152	77.2	
4			Gray, sandy SILT, some sand, trace gravel, moist, soft, petroleum odor.						
5				3	4-6'	19"/24"	1207	474	
6									
7				4	6-8'	19"/24"	1209	378	
8	SP		Gray, silty, fine to medium SAND, little silt, very moist, soft, petroleum odor.						
9				5	8-10'	14"/24"	1220	821	
10	SP		Brown to light gray, fine to medium SAND, little silt, moist, medium stiff, petroleum odor.						
11				6	10-12'	14"/24"	1222	458	
12									
13				7	12-14'	20"/24"	1240	232	
14									
15				8	14-16'	20"/24"	1242	180*	
16	SP		Brown to gray, fine to medium SAND, trace silt, wet, medium dense, sheen, petroleum odor.						
17									
18				9	16-20'	20"/24"	1248	-----	
19									
20									
21			TD=20'						
?			End of Borehole						
23									
24									
25									

Soil Boring Logs

Soil Boring ID: SB-21

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 8'
Logged by: KEC
Checked by: GAR
Date: 07/22/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
			Ground Surface						
0			CONCRETE.						
	ML		Brown, mottled, gray, clayey SILT, little sand, little sandstone gravel, moist, medium stiff.						
1				1	0-2'	18"/24"	0948	4.5	*
2									
3									
4									
5				2	2-8'	70"/72"	1005	6.7	*
6									
7									
8			TD=8'						
			End of Borehole						
9									

TMW/SB ID: TMW/SB-22

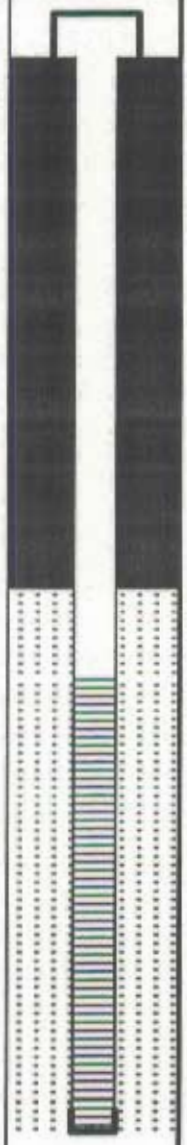
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 22'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/21/03-07/22/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-1									
0			Ground Surface						
1	ML		CONCRETE pavement.						
2			Brown, clayey SILT, some clay, some gravel, moist, medium stiff, petroleum odor.	1	0-2'	24"/24"	1620	24.9*	
3	ML		Brown, mottled, gray, clayey SILT, some clay, moist, medium stiff, petroleum odor.						
4									
5	ML		Brown, mottled, gray, clayey SILT, some clay, trace sand, moist, medium stiff, petroleum odor.	2	2-8'	60"/72"	1629	221*	
6									
7									
8									
9				3	8-10'	20"/24"	1648	123	
10									
11				4	10-12'	20"/24"	1650	121	
12									
13				5	12-14'	24"/24"	1715	353	
14									
15				6	14-16'	22"/24"	1745	688	
16									
17				7	16-18'	24"/24"	1747	1068	
18	SW		Gray, fine to coarse SAND, with trace sandstone gravel, moist, very dense, petroleum odor.						
19				8	18-20'	18"/24"	0820	258	
20									
21				9	20-22'	20"/24"	0822	929*	
22	SW								
23			Gray, fine to coarse SAND, little sandstone gravel, wet, loose, sheen, petroleum odor.						
24	ML		Brown, clayey SILT, some clay, very moist, medium stiff.						
25									
26			TD=26'						
27			End of Borehole						
28									
29									



TMW/SB ID: TMW/SB-23

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 2
Depth to Water: 23.5'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/22/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-4, -3, -2, -1									
0			Ground Surface						
			CONCRETE pavement.						
1	ML		Brown, clayey SILT, some clay, moist, medium stiff.	1	0-2'	18"/24"	1035	1.0*	
2									
3	ML		Gray, clayey SILT, some clay, moist, medium stiff, petroleum odor.						
4	ML		Brown, mottled, gray, clayey SILT, some clay, moist, medium stiff, petroleum odor.						
5				2	2-8'	72"/72"	1042	40.4*	
6	GW								
	ML		SANDSTONE gravel.						
7			Brown, mottled, gray, clayey SILT, some clay, moist, medium stiff, iron-staining, petroleum odor.						
8	ML		Brown, mottled, gray, clayey SILT, some clay, little sand, very moist, medium stiff.	3	8-10'	24"/24"	1108	24.9	
9									
10	ML		Brown, mottled, gray, clayey SILT, some clay, some sand, damp, soft, sheen, petroleum odor.						
11				4	10-12'	24"/24"	1110	66.3	
12									

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 2 of 2
Depth to Water: 23.5'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/22/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
13				5	12-14'	24"/24"	1127	256	
14	ML		Brown, mottled, gray, clayey SILT, some clay, some sand, moist, medium stiff, petroleum odor.	6	14-16'	24"/24"	1235	495	
16	SM		Brown to gray, silty, fine to medium SAND, some silt, moist, medium dense, petroleum odor.						
17	SP		Gray, fine to medium SAND, with sandstone gravel, moist, very dense, petroleum odor.	7	16-18'	20"/24"	1250	68.3	
18									
19				8	18-20'	16"/24"	1327	14.6	
20	SP		Gray, fine to medium SAND, with sandstone gravel, very moist, dense, petroleum odor.						
21				9	20-22'	16"/24"	1329	871	
22									
23				10	22-23.5'	12"/12"	1350	936*	
24	SP		Gray, fine to medium SAND, with trace sandstone gravel, wet, dense, petroleum odor.	11	23.5-26'	30"/30"	1355	-----	
25	ML		Reddish-brown to gray, clayey SILT, some clay, little sand, very moist, medium stiff.						
26			TD=26'						
27			End of Borehole						
28									

Soil Boring Logs

Soil Boring ID: SB-24

Shaw Environmental & Infrastructure, Inc.

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 12'
Logged by: KEC
Checked by: GAR
Date: 07/21/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
	ML		Brown, mottled, gray, clayey SILT, some clay with trace gravel, moist, soft, petroleum odor.						
	ML		Brown, mottled, gray, clayey SILT, little clay, trace sand, moist, medium stiff, petroleum odor, iron-staining.	1	0-2'	24"/24"	1005	5.8	*
1									
2									
3									
4									
5				2	2-8'	70"/72"	1025	619	*
6									
7									
8									
9				3	8-10'	17"/24"	1050	71.4	
10	ML		Brown, sandy SILT, some sand, moist, medium stiff.						
11				4	10-12'	17"/24"	1055	12.2	*
12			TD=12'						
			End of Borehole						
13									

Soil Boring Logs

Shaw Environmental & Infrastructure, Inc.

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Diameter: 2"

Depth to Water: N/A
Total Hole Depth: 8'
Logged by: KEC
Checked by: GAR
Date: 07/21/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
	ML		GRAVEL. Fill.						
	GP		Brown, clayey SILT, some clay, trace gravel, very moist, soft, petroleum odor.						
	ML		Black, fine SAND and COAL fragments, moist, loose.	1	0-2'	20"/24"	0915	13.8	*
1			Brown, clayey SILT, some clay, very moist, soft, petroleum odor.						
2	ML		Brown, mottled, gray, clayey SILT, moist, medium stiff, petroleum odor.						
3									
4									
5				2	2-8'	48"/72"	0940	41.7	*
6									
7									
8			TD=8'						
			End of Borehole						
9									

TMW/SB ID: TMW/SB-26

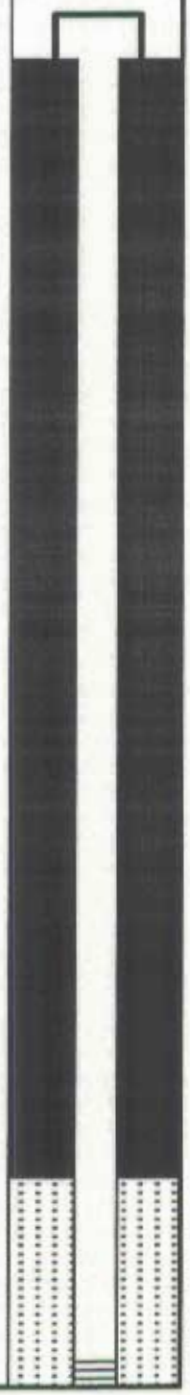
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 2
Depth to Water: 22'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/17/03-07/22/03-07/23/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
			Ground Surface						
0	CL		Brown, silty CLAY, some silt, trace gravel, moist, medium stiff, petroleum odor. (Fill).						
	ML		Brown, mottled, gray, clayey SILT, trace sand, moist, stiff, petroleum odor.	1	0-2'	24"/24"	1530		
1									
2									
3									
4									
5				2	2-8'	72"72"	1545		
6									
7									
8	ML		Brown, clayey SILT, some clay, little sand, moist, medium stiff, petroleum odor.						
9				3	8-10'	24"/24"	1614		
10	SP		Brown, silty, fine to medium SAND, moist, medium stiff.						
11				4	10-12'	24"/24"	1615		
12									
13				5	12-14'	24"/24"	1010		
14									



TMW/SB ID: TMW/SB-26

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 2 of 2
Depth to Water: 22'
Total Hole Depth: 26'
Logged by: KEC
Checked by: GAR
Date: 07/17/03-07/22/03-07/23/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
15				6	14-16'	24"/24"	1012		
16	SP		Brown, fine to medium SAND, with sandstone gravel, moist, very dense, slight petroleum odor.						
17				7	16-18'	24"/24"	1039		
18									
19				8	18-20'	24"/24"	1140		
20									
21				9	20-22'	24"/24"	1303		
22	SP		Gray, fine to medium SAND, some sandstone gravel, wet, dense.						
	CL		Brown, mottled, gray, silty CLAY, some silt, moist, medium stiff.						
23									
24	SP		Brown, fine to medium SAND, moist, medium dense.	10	22-26'	48"48"	1309		
25									
	CL		Brown, silty CLAY, some silt, moist, medium stiff.						
26			TD=26'						
27			End of Borehole						
28									
29									

Soil Boring Logs

Soil Boring ID: SB-27

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: N/A
Driller: N/A
Drilling Method: Hand Auger
Rig Type: N/A
Diameter: 4"

Depth to Water: N/A
Total Hole Depth: 3'
Logged by: KEC
Checked by: GAR
Date: 07/23/03

Depth	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	PID	* Samples Collected
0			Ground Surface						
	ML		Brown, clayey SILT, some clay, little gravel, moist, medium stiff.						
	ML		Gray, clayey SILT, some clay, little sand, little organic matter, very damp, soft.	1	0-1'	12"/12"	1705	1.7	
1				2	1-2'	12"/12"	1710	1.0	
2				3	2-3'	12"/12"	1715	1.0	*
3			TD=3'						
			End of Borehole						
4									

TMW/SB ID: TMW/BG-1

Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 12'
Total Hole Depth: 17'
Logged by: KEC
Checked by: GAR
Date: 07/16/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-1									
0			Ground Surface						
			ASPHALT, GRAVEL, and ORGANIC MATTER.						
1	CL		Brown, mottled, gray, silty CLAY, some silt, moist, medium stiff.	1	0-2'	20"/24"	1435	20.3*	
2									
3									
4	ML		Brown, mottled, gray SILT, some clay, moist, medium stiff.						
5				2	2-8'	70"/72"	1449	13.4*	
6									
7									
8									
9				3	8-10'	20"/24"	1500	11.3	
10	ML		Brown, mottled, gray, sandy SILT, some sand, very moist, medium stiff.						
11				4	10-12'	20"/24"	1503	9.7*	
12	SP		Brown, silty, fine to medium SAND, little silt, wet, soft.						
13									
14									
15				5	12-17'	50"/60"	1508	-----	
16									
17									
			TD=17'						
18			End of Borehole						
19									

TMW/SB ID: TMW/BG-2

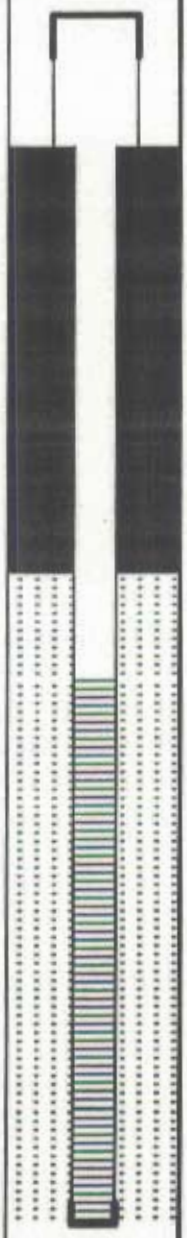
Soil Boring-TMW Log

Project: PQS#5117-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845335
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: Direct Push
Rig Type: Geoprobe
Well Diameter: 2"

Page: 1 of 1
Depth to Water: 16'
Total Hole Depth: 20'
Logged by: KEC
Checked by: GAR
Date: 07/16/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	TMW Details
-2, -1, 0			Ground Surface						
0–1	CL		Brown, silty CLAY, some silt, little gravel, little organic matter, moist, medium stiff.	1	0-2'	20"/24"	1600	3.0*	
2–3	CL		Brown, mottled, gray, silty CLAY, some silt, moist, medium stiff, petroleum odor.						
4–8	ML		Brown, mottled, gray, clayey SILT, moist, medium stiff, petroleum odor.	2	2-8'	70"/72"	1613	22.2*	
9	CL		Brown, mottled, gray, silty CLAY, some silt, little sand, moist, medium stiff, petroleum odor.	3	8-10'	22"/24"	1625	17.4	
10–11				4	10-12'	22"/24"	1627	11.2	
12–13				5	12-14'	24"/24"	1637	14.7	
14–15	ML		Brown, sandy SILT, some clay, moist, medium stiff, slight petroleum odor.	6	14-16'	24"/24"	1639	16.5*	
16–19	SP		Brown, silty, fine to medium SAND, wet, loose.	7	16-20'	72"/72"	1645	----	
20			TD=20'						
21–22			End of Borehole						



Monitoring Well ID: MW-8

Drilling Log-MW Installation

Project: PQS-Etowah Terminal
Client: Pennzoil-Quaker State Company
Project No: 845137.03
Site Location: 1015 Barlow Drive, Chas, WV
License No.: WV-00174

Drill Co.: Enviroprobe, Inc.
Driller: Roy Fox
Drilling Method: HSA
Rig Type: Auger
Well Diameter: 4"

Page: 1 of 1
Depth to Water: 38'
Total Hole Depth: 52'
Logged by: DTC
Checked by: GAR
Date: 10/15/03
***Samples submitted to lab**

Depth (feet)	USCS Class.	Graphic Log	Description	Sample Number	Sample Interval	Sample Recovery	Sample Time	FID/PID (ppm-v/v)	MW Details
-3 -2 -1 0			Ground Surface						
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32			NO SAMPLES COLLECTED FROM 0' TO 33' BELOW GROUND SURFACE (b.g.s.). SEE SOIL BORING LOG FOR TMW/SB-7D FOR LITHOLOGICAL DESCRIPTIONS.						
33 34 35	SP		Light brown, fine to medium SAND with little silt, moist, loose, trace muscovite.	1	33-35'	1.3'	1315	-----	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52			NOTE: DUE TO MECHANICAL DIFFICULTY, COLLECTION OF SPLIT-SPOON SAMPLES WAS SUSPENDED.						
53 54 55 56			TD=52' End of Borehole						

APPENDIX B

MONITORING WELL DEVELOPMENT AND GROUNDWATER SAMPLE COLLECTION LOGS

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB #2

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1328
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	2.85 feet
Depth to bottom of well from reference point	10.12 feet
Height of water column (h) in feet.	7.27 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.29 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.29
Volume of water to be removed (minimum of 3 well volumes).	0.87 gallons
Pumping Time: Start: 1328 Finish: 1338	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	1.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1338	1.5	No Readings due to sheen			Brown, Turbid, Sheen, petro odor	

Comments: Well recharging fast.

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Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-35

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	13.20
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	11.22 feet
Depth to bottom of well from reference point	12.22 feet
Height of water column (h) in feet.	1.00 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.04 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.04
Volume of water to be removed (minimum of 3 well volumes).	0.12 gallons
Pumping Time: Start: 1320 Finish: 1322	2 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1322	0.2	No Readings due to	Sheen		Brown, Turbid, sheen petro odor	

Comments: Well went dry

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Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: IMW/SB-3D

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1323
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	27.85 feet
Depth to bottom of well from reference point	32.50 feet
Height of water column (h) in feet.	4.65 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.19 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.19
Volume of water to be removed (minimum of 3 well volumes).	0.56 gallons
Pumping Time: Start: 1323 Finish: 1327	4 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.4 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1327	0.4	No Readings due to sheen			Brown, Turbid, Sheen petro odor	

Comments: Well not dry

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-7S

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1254
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	7.22 feet
Depth to bottom of well from reference point	15.15 feet
Height of water column (h) in feet.	7.93 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.32 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.32
Volume of water to be removed (minimum of 3 well volumes).	0.95 gallons
Pumping Time: Start: 1254 Finish: 1259	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity us	Appearance/Odor	DO mg/L
1259	0.5	No Readings due		to sheen	Brown, Turbid, sheen petro odor	

Comments: Well went dry

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Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-7D

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1300
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	39.32 feet
Depth to bottom of well from reference point	45.15 feet
Height of water column (h) in feet.	5.83 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.23 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.23
Volume of water to be removed (minimum of 3 well volumes).	0.7 gallons
Pumping Time: Start: 1300 Finish: 1310	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.0 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor
1310	2.0	No Readings due to sheen			Brown, Turbid, sheen, petro odor

DO mg/L

Comments: Well Recharges Good

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-11

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	0940
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	10.31 feet
Depth to bottom of well from reference point	14.95 feet
Height of water column (h) in feet.	4.64 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.19 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.19
Volume of water to be removed (minimum of 3 well volumes).	0.56 gallons
Pumping Time: Start: 0940 Finish: 0950	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.75 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C	pH (Std Units)	.Conductivity uS	Appearance/Odor	DO mg/L
0943	0.25	21.4	6.43	562	Brown, Turbid, Petro odor	1.35
0946	0.5	21.6	6.40	557	Brown, Turbid, Petro odor	1.30
0950	0.75	21.7	6.40	555	Brown, Turbid, Petro odor	1.30

Comments: Well went dry!

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Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-12

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	0954
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	2.39 feet
Depth to bottom of well from reference point	9.98 feet
Height of water column (h) in feet.	7.59 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.3 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.3
Volume of water to be removed (minimum of 3 well volumes).	0.9 gallons
Pumping Time: Start: 0954 Finish: 1008	14 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1008	2.0	No Readings due to sheen			Brown, Turbid, Sheen, Petro odor	

Comments: Well recharges Good

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-13

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1013
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	~~16.~~ 15.62 feet
Depth to bottom of well from reference point	18.25 feet
Height of water column (h) in feet.	2.63 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.11 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.11
Volume of water to be removed (minimum of 3 well volumes).	0.32 gallons
Pumping Time: Start: 1013 Finish: 1024	11 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.0 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1024	2.0	No Readings due to sheen			Brown, Turbid, sheen Petro odor	

Comments: Well Recharges Good

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Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: JMW/SB-14

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1140
PROJECT NO:	845335	COST CODE:	01000006

Groundwater Elevation Data:

Depth to water from reference point	14.44 feet
Depth to bottom of well from reference point	18.00 feet
Height of water column (h) in feet.	3.56 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.14 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.14
Volume of water to be removed (minimum of 3 well volumes).	0.42 gallons
Pumping Time: Start: 1140 Finish: 1152	12 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.0 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1142	0.5	18.0	6.05	214	Brown, Turbid, Petro odor	2.24
1148	1.25	18.2	6.03	210	Brown, Turbid, Petro odor	2.20
1152	2.0	18.3	6.00	210	Brown, Turbid, Petro odor	2.19

Comments: Well recharges Good

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-16

CLIENT:	PQS	DATE:	7.24-03
LOCATION:	Etowah Terminal	TIME:	1122
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	17.11	feet
Depth to bottom of well from reference point	22.00	feet
Height of water column (h) in feet.	4.89	feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC	

Well Development Data:

Volume of Water in Well	0.2	gallons
2-inch well (Vol. = 0.162 x h	—	
4-inch well (Vol. = 0.651 x h	—	
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.2	
Volume of water to be removed (minimum of 3 well volumes).	0.6	gallons
Pumping Time: Start: 1122 Finish: 1138	16	minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer	
Volume of water removed	4.0	gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity	Appearance/Odor	DO mg/L
1138	4.0	No Readings due to sheen			Brown, Turbid, Sheen, Petro odor	

Comments: Well recharges good.

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-17

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1108
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	17.14 feet
Depth to bottom of well from reference point	20.15 feet
Height of water column (h) in feet.	3.01 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.12 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.12
Volume of water to be removed (minimum of 3 well volumes).	0.36 gallons
Pumping Time: Start: 1108 Finish: 1118	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.0 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C)	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1118	2.0	No Readings due to sheen			Brown, Turbid, sheen petro odor	

Comments: Well recharges good.

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FIELD WELL DEVELOPMENT LOG

Monitoring Well: IMW/SB-18

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1058
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	14.00 feet
Depth to bottom of well from reference point	15.15 feet
Height of water column (h) in feet.	1.15 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.05 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.05
Volume of water to be removed (minimum of 3 well volumes).	0.15 gallons
Pumping Time: Start: 1058 Finish: 1105	7 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C)	pH (Std Units)	Conductivity uS	Appearance/Odor
1105	0.2	No Readings due to sheen			Brown, Turbid, sheen petro odor

DO mg/L

Comments: Well went dry

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/58-20

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1043
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	15.20	feet
Depth to bottom of well from reference point	20.15	feet
Height of water column (h) in feet.	4.95	feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC	

Well Development Data:

Volume of Water in Well	0.2	gallons
2-inch well (Vol. = 0.162 x h	—	
4-inch well (Vol. = 0.651 x h	—	
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.2	
Volume of water to be removed (minimum of 3 well volumes).	0.6	gallons
Pumping Time: Start: 1043 Finish: 1055	12	minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer	
Volume of water removed	2.0	gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1055	2.0	No Readings due to sheen			Gray, Turbid, Sheen Petroodor	

Comments: Well Recharges Good.

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FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-22

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1405
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	19.96 feet
Depth to bottom of well from reference point	25.15 feet
Height of water column (h) in feet.	5.19 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.21 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.21
Volume of water to be removed (minimum of 3 well volumes).	0.62 gallons
Pumping Time: Start: 1405 Finish: 1415	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	1.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1415	1.5	No Readings due to Sheen			Gray, Turbid, Sheen petro odor	

Comments: Well recharging good

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FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-23

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1355
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	26.50 feet
Depth to bottom of well from reference point	30.15 feet
Height of water column (h) in feet.	3.65 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.15 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.15
Volume of water to be removed (minimum of 3 well volumes).	0.44 gallons
Pumping Time: Start: 1355 Finish: 1400	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity	Appearance/Odor
1400	0.2	No Readings due to sheen			~~Brown~~ Tan, Turbid, Sheen petro odor

DO mg/L

Comments: Well went dry.

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Shaw
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FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/SB-26

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1338
PROJECT NO:	845335	COST CODE:	01000006

Groundwater Elevation Data:

Depth to water from reference point	24.50 feet
Depth to bottom of well from reference point	25.00 feet
Height of water column (h) in feet.	0.50 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.05 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.05
Volume of water to be removed (minimum of 3 well volumes).	0.15 gallons
Pumping Time: Start: 1338 Finish: 1342	4 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.15 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor
1342	0.15	No Readings due to	mostly Sediment		Brown, Sediment

PO 72/L

Comments: Well was full of sediment, Dry.

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FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/BG-1

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1312
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	15.70 feet
Depth to bottom of well from reference point	17.00 feet
Height of water column (h) in feet.	1.30 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.05 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.05
Volume of water to be removed (minimum of 3 well volumes).	0.15 gallons
Pumping Time: Start: 1312 Finish: 1315	3 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.4 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1312	0.2	17.9	5.92	282	Brown, Turbid	5.05
1314	0.3	17.9	5.93	280	" "	5.02
1315	0.4	18.0	5.90	284	" "	5.00

Comments: well went dry.

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Shaw
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FIELD WELL DEVELOPMENT LOG

Monitoring Well: TMW/BG-2

CLIENT:	PQS	DATE:	7-24-03
LOCATION:	Etowah Terminal	TIME:	1343
PROJECT NO:	845335	COST CODE:	01000000

Groundwater Elevation Data:

Depth to water from reference point	13.72 feet
Depth to bottom of well from reference point	22.15 feet
Height of water column (h) in feet.	8.43 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	0.34 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.34
Volume of water to be removed (minimum of 3 well volumes).	1.01 gallons
Pumping Time: Start: 1343 Finish: 1353	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	1.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~C)	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1345	0.5	17.1	6.07	127	Brown, Turbid	2.25
1348	1.0	17.0	6.05	126	" "	2.25
1353	1.5	16.9	6.05	126	" "	2.27

Comments: Well recharges Good

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WATER QUALITY CALIBRATION LOG

Project#: 845335
Site name: PQS - Ferndale Terminal
Instrument I.D: YSI 63, YSI 55
Date: 7-24-03

pH/std (4)	pH/std (7)	cond./std 6.668	D.O. adjusted
4.00	7.00	6.67	✓

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CALIBRATION LOG

Project Name: PQS- Etowah Terminal

By: Kirk E Curry

Project No.: 845337

Date: 7-14-03

Page 1 of

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
7-14-03/ 0930	Mini Rae 2000	Isobutylene	100.0	99.8	NA
7-15-03/ 0715	"	"	"	100.1	NA
7-16-03/ 0715	"	"	"	100	NA
7-17-03/ 0715	"	"	"	99.8	NA
7-21-03/ 0820	"	"	"	102	NA
7-22-03/ 0725	"	"	"	101	NA
7-23-03/ 0950	"	"	"	101	NA

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FIELD WELL DEVELOPMENT LOG

Monitoring Well: MW-8

CLIENT:	PQS	DATE:	10-16-03
LOCATION:	ETOWAH TERMINAL (PQS 5117)	TIME:	0950
PROJECT NO:	845137	COST CODE:	03 000 000

Groundwater Elevation Data:

Depth to water from reference point	39.57 feet
Depth to bottom of well from reference point	52.31 feet
Height of water column (h) in feet.	12.74 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Development Data:

Volume of Water in Well	8.29 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	8.29
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	24.88 gallons
Pumping Time: Start: 0950 Finish: 1020	minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	25 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ °C)	pH (Std Units)	Conductivity µS	Appearance/Odor
0953	3.0	15.2	6.88	219	BROWN TURBID / NO ODOR
1005	12.0	15.3	6.30	171	BROWN TURBID / NO ODOR
1020	25.0	15.2	6.13	170	BROWN TURBID / NO ODOR

Comments:

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WATER QUALITY CALIBRATION LOG

Project#: 845137.03
Site name: ETOWAH TERMINAL
Instrument I.D: OAKTON
Date: 10-16-03

pH/std (4)	pH/std (7)	cond./std	D.O. adjusted
4.0 / 4.1	7.0 / 7.1	1109 / 1107	N/A

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Drum Inventory

Client: PQS
Site Name: ETOWAH TERMINAL (PQS 5117)
Site Location: CHARLESTON, WV
Shaw E&I, Inc. Project No. 845137.03

INVENTORY DATE: 10-16-03

Quantity (if drums present)	Contents (i.e. recovered oil, impacted soil, spent PPE, etc.)	Location (i.e. NE corner of site, behind shed, etc.)	Condition (i.e. good, rusted, leaking, etc.)	Labeling (i.e. hazardous, non-classified, PCBs, etc.)	Out Service Date (date drum first used - on drum lid)	Accum. Start Date (date drum full - on label)
~~4~~ 5	MW-8 SOIL CUTTINGS	NEAR WELD SHOP	GOOD	NON-CLASS	01/15/04	10-15-03
1	PURGE WATER*	"	"	"	01/16/04	10-16-03
1	TEMP WELL INSTALLATION* SOIL CUTTINGS	NEAR MW-7 AND BACK GATE	"	"	11/14/03	8-14-03

If damaged or leaking drums are observed, notify Project Manager immediately

* PURGE WATER WILL BE RUN THROUGH CARBON DURING NEXT QUARTERLY SAMPLING EVENT.

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GROUNDWATER SAMPLING FORM

Monitoring Well: SB-1/MW-6

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1425
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	15.82 feet
Depth to bottom of well from reference point	20.45 feet
Height of water column (h) in feet.	4.63 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.75 gallons
2-inch well (Vol. = 0.162 x h	0.75
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	2.25 gallons
Pumping Time: Start: 1425 Finish: 1435	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.25 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C)	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1429	1.0	18.1	5.98	474	Brown, Turbid	1.35
1433	2.0	18.3	5.98	475	" "	1.31
1435	2.25	18.3	5.98	475	" "	1.30

Comments: Sample Time: 8-15-03 1420
Sample ID: 20001 MS/MSD

Shaw
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GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-2S

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1330
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	3.03 feet
Depth to bottom of well from reference point	10.00 feet
Height of water column (h) in feet.	6.97 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.28 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.28
Volume of water to be removed (minimum of 3 well volumes).	0.84 gallons
Pumping Time: Start: 1330 Finish: 1335	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C)	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1335	0.5	25.7	6.39	372	Brown, Turbid, odor	1.15

Comments: Sample Time: 8-15-03 1325
Sample ID: 200025

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: SB-2/MW-5

CLIENT:	PQS	DATE:	8/14/03
LOCATION:	Etowah Terminal	TIME:	1340
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	37.47	~~3.03~~ feet
Depth to bottom of well from reference point	42.44	~~10.00~~ (WDD) feet
Height of water column (h) in feet.		4.97 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)		TOC

Well Purging Data:

Volume of Water in Well	0.81 gallons
2-inch well (Vol. = 0.162 x h	0.81
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	2.42 gallons
Pumping Time: Start: 1340 Finish: 1350	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1342	0.75	17.0	5.77	294	Brown, Turbid	1.30
1346	1.5	17.2	5.75	295	" "	1.27
1350	2.5	17.2	5.76	295	" "	1.25

Comments: Sample Time: 8-15-03 1340
Sample ID: 20002D FD*22002D 0800

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-3S

CLIENT:	PQS	DATE:	8/14/03
LOCATION:	Etowah Terminal	TIME:	1315
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	11.28 feet
Depth to bottom of well from reference point	12.22 feet
Height of water column (h) in feet.	0.94 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.04 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.04
Volume of water to be removed (minimum of 3 well volumes).	0.11 gallons
Pumping Time: Start: 1315 Finish: 1317	2 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.05 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1317	0.05	No Readings due to		Sheen	Brown, Turbid, odor	
		Well	went dry			

Comments: Sample Time: 8-15-03 1300
Sample ID: 200035

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-3D

CLIENT:	PQS	DATE:	8/14/03
LOCATION:	Etowah Terminal	TIME:	1320
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	28.20 feet
Depth to bottom of well from reference point	32.52 feet
Height of water column (h) in feet.	4.32 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.17 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.17
Volume of water to be removed (minimum of 3 well volumes).	0.52 gallons
Pumping Time: Start: 1320 Finish: 1325	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.25 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1322	0.15	19.3	6.08	390	Brown, Turbid	1.02
1325	0.25	19.4	6.07	392	Brown, Turbid, odor	1.00
		~~19.4~~ rec				

Comments: Sample Time: 8-15-03 1310
Sample ID: 20003D

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: SB-4/MW-4

CLIENT:	PQS	DATE:	8/14/03
LOCATION:	Etowah Terminal	TIME:	1300
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	25.64 feet
Depth to bottom of well from reference point	30.30 feet
Height of water column (h) in feet.	4.66 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.75 gallons
2-inch well (Vol. = 0.162 x h	0.75
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	2.26 gallons
Pumping Time: Start: 1300 Finish: 1310	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2.3 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~C)	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1303	0.75	19.5	5.83	235	Brown, Turbid	1.45
1307	1.5	20.0	5.83	236	" "	1.41
1310	2.3	20.3	5.84	242	" "	1.40

Comments: Sample Time: 8-15-03 1245 MS/MSD
Sample ID: 20004

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-7S

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	12:20
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	7.54	feet
Depth to bottom of well from reference point	15.15	feet
Height of water column (h) in feet.	7.61	feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC	

Well Purging Data:

Volume of Water in Well	0.3	gallons
2-inch well (Vol. = 0.162 x h	—	
4-inch well (Vol. = 0.651 x h	—	
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.3	
Volume of water to be removed (minimum of 3 well volumes).	0.9	gallons
Pumping Time: Start: 1220 Finish: 1228	8	minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer	
Volume of water removed	0.9	gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity	Appearance/Odor
1228	0.9	No Readings due to		sheen	Black, Turbid, odor

Comments: Sample Time: 8-15-03 1200
Sample ID: 200075

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-70

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1245
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

DTP 39.05

Depth to water from reference point	39.74	feet
Depth to bottom of well from reference point	45.15	feet
Height of water column (h) in feet.	5.41	feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC	

Well Purging Data:

Volume of Water in Well	NA	gallons
2-inch well (Vol. = 0.162 x h	~~N~~	
4-inch well (Vol. = 0.651 x h	—	
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	NA	
Volume of water to be removed (minimum of 3 well volumes).	NA	gallons
Pumping Time: Start:_____ Finish: _____	NA	minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer	
Volume of water removed	NA	gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity	Appearance/Odor
		No Readings due to F.P.			

Comments: No Sample due to Hydrocarbons (Liquid phase)

Shaw
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GROUNDWATER SAMPLING FORM

Monitoring Well: S[redacted]aw-1[redacted]

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1035
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	15.84 feet
Depth to bottom of well from reference point	22.81 feet
Height of water column (h) in feet.	6.97 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	1.13 gallons
2-inch well (Vol. = 0.162 x h	1.13
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	3.39 gallons
Pumping Time: Start: 1035 Finish: 1045	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	3.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO MG/L
1038	1.0	18.3	5.40	271	Brown, Turbid	1.66
1041	2.5	18.5	5.39	272	" "	1.67
1045	3.5	18.5	5.38	272	" "	1.65

Comments: Sample Time: 8-15-03 0830
Sample ID: 20010[redacted]

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-11

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1046
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	13.91 feet
Depth to bottom of well from reference point	15.00 feet
Height of water column (h) in feet.	1.09 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.04 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.04
Volume of water to be removed (minimum of 3 well volumes).	0.12 gallons
Pumping Time: Start: 1046 Finish: 1048	2 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	~~0.10~~ 0.08 REC gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~C)	pH (Std Units)	Conductivity mS	Appearance/Odor
1048	0.08	Not Enough Volume for Readings			Well went dry

DO/mg/L

Comments: Sample Time: 8-15-03 1010
Sample ID: 20011

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-12

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1050
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	4.40 feet
Depth to bottom of well from reference point	10.00 feet
Height of water column (h) in feet.	5.60 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.22 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.22
Volume of water to be removed (minimum of 3 well volumes).	0.67 gallons
Pumping Time: Start: 1050 Finish: 1058	8 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.75 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor DO mg/L
1052	0.25	No Readings due	to sheen		
1055	0.50	"	"	" "	
1058	0.75	"	"	" "	

Comments: Sample Time: 8-15-03 1020
Sample ID: 20012

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-13

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1100
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	15.09 feet
Depth to bottom of well from reference point	18.25 feet
Height of water column (h) in feet.	3.16 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.13 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.13
Volume of water to be removed (minimum of 3 well volumes).	0.38 gallons
Pumping Time: Start: 1100 Finish: 1105	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C)	pH (Std Units)	Conductivity NS	Appearance/Odor	DO MG/L
1102	0.15	18.5	5.78	219	Brown, Turbid	1.55
1103	0.3	18.5	5.76	220	" "	1.53
1105	0.5	18.6	5.75	224	" "	1.52

Comments: Sample Time: 8-15-03 1025
Sample ID: 20013

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-14

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1107
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	13.86 feet
Depth to bottom of well from reference point	18.02 feet
Height of water column (h) in feet.	4.16 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.17 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.17
Volume of water to be removed (minimum of 3 well volumes).	0.5 gallons
Pumping Time: Start: 1107 Finish: 1115	8 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity mS	Appearance/Odor	DO mg/L
1110	0.2	17.2	6.12	225	Brown, Turbid	2.07
1112	0.4	17.2	6.11	226	" "	2.05
1115	0.5	17.2	6.11	226	" "	2.05

Comments: Sample Time: 8-15-03 1045
Sample ID: 20014

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: SB-15/MW-2

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1117
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	16.36 feet
Depth to bottom of well from reference point	23.40 feet
Height of water column (h) in feet.	7.04 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	1.14 gallons
2-inch well (Vol. = 0.162 x h	1.14
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	3.42 gallons
Pumping Time: Start: 1117 Finish: 1127	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	3.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C)	pH (Std Units)	Conductivity MS	Appearance/Odor	DO MG/L
1120	1.0	16.3	5.67	92 ~~1.32~~ REC	Brown, Turbid	1.32
1125	2.5	16.5	5.68	93 ~~1.30~~ REC	" "	1.30
1127	3.5	16.5	5.67	94 ~~1.30~~ REC	" "	1.30

Comments: Sample Time: 8-15-03 0855
Sample ID: 20015

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-16

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1130
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	16.41 feet
Depth to bottom of well from reference point	22.35 feet
Height of water column (h) in feet.	5.94 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.24 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.24
Volume of water to be removed (minimum of 3 well volumes).	0.71 gallons
Pumping Time: Start: 1130 Finish: 1138	8 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.75 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity MS	Appearance/Odor	DO MG/L
1132	0.25	No Readings due		to sheen	Brown, Turbid odor	
1135	0.5	"	"	" "	" " "	
1138	0.75	"	"	" "	" " "	

Comments: Sample Time: 8-15-03 1100
Sample ID: 20016

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-17

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1140
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	16.32 feet
Depth to bottom of well from reference point	20.15 feet
Height of water column (h) in feet.	3.83 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.15 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.15
Volume of water to be removed (minimum of 3 well volumes).	0.46 gallons
Pumping Time: Start: 1140 Finish: 1142	2 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.5 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity mS	Appearance/Odor
1142	0.2	No Readings due to sheen			Brown, Turbid, odor
1145	0.4	"	"	"	" " "
1147	0.5	"	"	"	" " "

DO
NGK

Comments: Sample Time: 8-15-03 1120
Sample ID: 20017

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-18

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1150
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	15.00 feet
Depth to bottom of well from reference point	15.15 feet
Height of water column (h) in feet.	0.15 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.01 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.01
Volume of water to be removed (minimum of 3 well volumes).	0.03 gallons
Pumping Time: Start: 1150 Finish: 1151	1 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.01 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity MS	Appearance/Odor	DO MG/L
1151	0.01	Not Enough for Readings			Brown, Turbid, odor	
		Well is dry				

Comments: No Sample collected due to well being dry.

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: SB-19/MW-3

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1153
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	17.37 feet
Depth to bottom of well from reference point	24.80 feet
Height of water column (h) in feet.	7.43 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	1.2 gallons
2-inch well (Vol. = 0.162 x h	~~1.2~~
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	3.61 gallons
Pumping Time: Start: 1153 Finish: 1203	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	3.75 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C)	pH (Std Units)	Conductivity mS	Appearance/Odor	DO MG/L
1155	1.0	17.8	5.95	472	Brown, Turbid	1.10
1158	2.5	18.0	5.94	473	" "	1.08
1203	3.75	18.1	5.94	475	" "	1.08

Comments: Sample Time: 8-15-03 0915
Sample ID: 20019

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Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-20

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1205
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	14.20 feet
Depth to bottom of well from reference point	20.15 feet
Height of water column (h) in feet.	5.95 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.24 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.24
Volume of water to be removed (minimum of 3 well volumes).	0.71 gallons
Pumping Time: Start: 1205 Finish: 1215	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	BAILER
Volume of water removed	0.75 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~ C	pH (Std Units)	Conductivity mS	Appearance/Odor	DO mg/L
1207	0.25	17.5	6.03	831	Brown, Turbid, odor	1.07
1211	0.5	17.6	6.04	831	" " "	1.05
1215	0.75	17.6	6.04	833	" " "	1.05

Comments: Sample Time: 8-15-03 11 35

Sample ID: 20020

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-22

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1505
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	20.52 feet
Depth to bottom of well from reference point	25.15 feet
Height of water column (h) in feet.	4.63 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.19 gallons
2-inch well (Vol. = 0.162 x h	~~0~~
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	~~0.56~~ REC 0.19
Volume of water to be removed (minimum of 3 well volumes).	0.56 gallons
Pumping Time: Start: 1505 Finish: 1520	15 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.6 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1510	0.2	No Readings due to Sheen			Brown, Turbid, odo	
1515	0.4	"	"	"	" " "	
1520	0.6	"	"	"	" " "	

Comments: Sample Time: 8-15-03 1455
Sample ID: 20022

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-23

CLIENT:	PQS	DATE:	8/14/03
LOCATION:	Etowah Terminal	TIME:	1445
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	27.05 feet
Depth to bottom of well from reference point	30.15 feet
Height of water column (h) in feet.	3.10 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.12 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.12
Volume of water to be removed (minimum of 3 well volumes).	0.47 gallons
Pumping Time: Start: 1445 Finish: 1455	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity	Appearance/Odor
1455	0.2	No Readings due to sheen			
					Brown, Turbid, odor

Comments: Sample Time: 8-15-03 1435
Sample ID: 20023

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/SB-26

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1355
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	23.35 feet
Depth to bottom of well from reference point	25.15 feet
Height of water column (h) in feet.	1.8 feet Sediment only
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	NA gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1 -inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	NA
Volume of water to be removed (minimum of 3 well volumes).	NA gallons
Pumping Time: Start: 1355 Finish: 1355	1 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	NA gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F)	pH (Std Units)	Conductivity	Appearance/Odor
		Well is Full of Sediment, No Water			

Comments: No Sample Collected due to well being dry

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: MW-7

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1530
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	35.82 feet
Depth to bottom of well from reference point	39.95 feet
Height of water column (h) in feet.	4.13 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.67 gallons
2-inch well (Vol. = 0.162 x h	0.67
4-inch well (Vol. = 0.651 x h	—
__-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	—
Volume of water to be removed (minimum of 3 well volumes).	2.01 gallons
Pumping Time: Start: 1530 Finish: 1545	15 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	2 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1535	0.75	17.5	5.27	480	Brown, Turbid	2.01
1540	1.5	17.7	5.24	477	" "	1.98
1545	2.0	17.8	5.23	475	" "	1.97

Comments: Sample Time: 8-15-03 0945
Sample ID: 20027

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/BG-1

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1250
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	15.71 feet
Depth to bottom of well from reference point	16.91 feet
Height of water column (h) in feet.	1.20 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.05 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
___-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	0.05
Volume of water to be removed (minimum of 3 well volumes).	0.15 gallons
Pumping Time: Start: 1250 Finish: 1255	5 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.1 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees F/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1251	0.03	24.5	5.90	374	Brown, Turbid	3.71
1253	0.07	24.7	5.88	371	" "	3.67
1255	0.1	25.1	5.87	370	" "	3.66
					Well went dry	

Comments: Sample Time: 8-15-03 1225
Sample ID: 20028

Shaw
Shaw Environmental & Infrastructure, Inc.

GROUNDWATER SAMPLING FORM

Monitoring Well: TMW/BG-2

CLIENT:	PQS	DATE:	8-14-03
LOCATION:	Etowah Terminal	TIME:	1405
PROJECT NO:	845335	COST CODE:	0100 0000

Groundwater Elevation Data:

Depth to water from reference point	16.38 feet
Depth to bottom of well from reference point	22.02 feet
Height of water column (h) in feet.	5.64 feet
Reference Point : Top of Casing (TOC), Ground Surface (GS)	TOC

Well Purging Data:

Volume of Water in Well	0.22 gallons
2-inch well (Vol. = 0.162 x h	—
4-inch well (Vol. = 0.651 x h	—
1-inch well (Vol. = 7.48 x 3.14 x r^2 x h, Where r = radius of well).	~~0.67~~ REC 0.22
Volume of water to be removed (minimum of 3 well volumes).	0.67 gallons
Pumping Time: Start: 1405 Finish: 1415	10 minutes
Pump Type (model): Bailer; DC Purge Pump, Other	Bailer
Volume of water removed	0.7 gallons

Well Draw Down & Field Water Quality:

Time	Gallons	Temperature (Degrees ~~F~~/C	pH (Std Units)	Conductivity uS	Appearance/Odor	DO mg/L
1408	0.25	19.5	6.11	344	Brown, Turbid	1.92
1411	0.5	19.7	6.09	345	" "	1.92
1415	0.7	19.7	6.07	345	" "	1.90

Comments: Sample Time: 8-15-03 1400
Sample ID: 20029

Shaw Environmental & Infrastructure, Inc.

WATER QUALITY CALIBRATION LOG

Project#: 845335
Site name: PRS - Ferndale Terminal
Instrument I.D: YSI 55, YSI 63
Date: 8-14-03

pH/std (4)	pH/std (7)	cond./std 6668	D.O. adjusted
4.0	7.0	667	✓

APPENDIX C

SOIL CHAIN-OF-CUSTODY AND CERTIFICATE-OF-ANALYSIS COPIES

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

8/ 1/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845337.
Laboratory Project Number: 339263.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
10028	03-A108834	7/14/03
10029	03-A108835	7/14/03
10030	03-A108836	7/14/03
10033	03-A108837	7/14/03
10036	03-A108838	7/14/03
10055	03-A108839	7/14/03
10056	03-A108840	7/14/03
10054	03-A108841	7/14/03
10051	03-A108842	7/14/03
TB-1	03-A108843	

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Sample Identification	Lab Number	Collection Date

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Report Approved By: Glenn L. Norton Report Date: 8/ 1/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108834
Sample ID: 10028
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 9:48
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	31.4	mg/kg	5.82	1	7/17/03	17:51	L. Watson	8015B	5879
TPH (Gasoline Range)	< 5.82	mg/kg	5.82	1	7/24/03	23:28	J. Redmond	8015B	4174
TPH (Diesel Range)	16.6	mg/kg	5.82	1	7/17/03	17:51	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/15/03	15:38	J. Adams	8260B	4753
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/15/03	15:38	J. Adams	8260B	4753
Toluene	< 0.0017	mg/kg	0.0017	1	7/15/03	15:38	J. Adams	8260B	4753
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/15/03	15:38	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/15/03	15:38	J. Adams	8260B	4753
METALS									
Lead	50.8	mg/kg	1.12	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.9	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108834
Sample ID: 10028
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	6.48 g	5.0 ml	7/14/03	9:48	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	65.	65. - 119.
EPH surr-o-Terphenyl	61.	53. - 123.
VOA Surr 1,2-DCA-d4	107.	58. - 139.
VOA Surr Toluene-d8	81.	71. - 127.
VOA Surr, 4-BFB	86.	60. - 141.
VOA Surr, DBFM	106.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108835
Sample ID: 10029
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 10:20
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	17.2	mg/kg	5.41	1	7/17/03	18:12	L. Watson	8015B	5879
TPH (Gasoline Range)	< 5.41	mg/kg	5.41	1	7/25/03	0:05	J. Redmond	8015B	4174
TPH (Diesel Range)	9.77	mg/kg	5.41	1	7/17/03	18:12	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/15/03	16:07	J. Adams	8260B	4753
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/15/03	16:07	J. Adams	8260B	4753
Toluene	0.0010 J	mg/kg	0.0019	1	7/15/03	16:07	J. Adams	8260B	4753
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/15/03	16:07	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/15/03	16:07	J. Adams	8260B	4753
METALS									
Lead	15.5	mg/kg	1.07	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	92.5	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108835
Sample ID: 10029
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.1 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	5.55 g	5.0 ml	7/14/03	10:20	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	73.	53. - 123.
VOA Surr 1,2-DCA-d4	116.	58. - 139.
VOA Surr Toluene-d8	82.	71. - 127.
VOA Surr, 4-BFB	86.	60. - 141.
VOA Surr, DBFM	103.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108836
Sample ID: 10030
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 10:27
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.02	mg/kg	6.02	1	7/17/03	18:33	L. Watson	8015B	5879
TPH (Gasoline Range)	< 6.02	mg/kg	6.02	1	7/25/03	0:41	J. Redmond	8015B	4174
TPH (Diesel Range)	< 6.02	mg/kg	6.02	1	7/17/03	18:33	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/kg	0.0020	1	7/15/03	16:37	J. Adams	8260B	4753
Ethylbenzene	< 0.0020	mg/kg	0.0020	1	7/15/03	16:37	J. Adams	8260B	4753
Toluene	< 0.0020	mg/kg	0.0020	1	7/15/03	16:37	J. Adams	8260B	4753
Xylenes (Total)	< 0.0020	mg/kg	0.0020	1	7/15/03	16:37	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/15/03	16:37	J. Adams	8260B	4753
METALS									
Lead	10.9	mg/kg	1.16	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.0	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108836
Sample ID: 10030
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.1 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	5.90 g	5.0 ml	7/14/03	10:27	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	65.	65. - 119.
EPH surr-o-Terphenyl	80.	53. - 123.
VOA Surr 1,2-DCA-d4	116.	58. - 139.
VOA Surr Toluene-d8	80.	71. - 127.
VOA Surr, 4-BFB	80.	60. - 141.
VOA Surr, DBFM	107.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108837
Sample ID: 10033
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 10:57
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	18.7	mg/kg	5.84	1	7/17/03	18:54	L. Watson	8015B	5879
TPH (Gasoline Range)	< 5.84	mg/kg	5.84	1	7/25/03	1:17	J. Redmond	8015B	4174
TPH (Diesel Range)	18.7	mg/kg	5.84	1	7/17/03	18:54	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:07	J. Adams	8260B	4753
Ethylbenzene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:07	J. Adams	8260B	4753
Toluene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:07	J. Adams	8260B	4753
Xylenes (Total)	< 0.0020	mg/kg	0.0020	1	7/15/03	17:07	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/15/03	17:07	J. Adams	8260B	4753
METALS									
Lead	20.2	mg/kg	1.14	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.6	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108837
Sample ID: 10033
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	24.8 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	5.92 g	5.0 ml	7/14/03	10:57	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
EPH surr-o-Terphenyl	70.	53. - 123.
VOA Surr 1,2-DCA-d4	118.	58. - 139.
VOA Surr Toluene-d8	81.	71. - 127.
VOA Surr, 4-BFB	80.	60. - 141.
VOA Surr, DBFM	108.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108838
Sample ID: 10036
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 11:54
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	16.9	mg/kg	6.02	1	7/17/03	19:14	L. Watson	8015B	5879
TPH (Gasoline Range)	< 6.02	mg/kg	6.02	1	7/25/03	1:53	J. Redmond	8015B	4174
TPH (Diesel Range)	10.0	mg/kg	6.02	1	7/17/03	19:14	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:37	J. Adams	8260B	4753
Ethylbenzene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:37	J. Adams	8260B	4753
Toluene	< 0.0020	mg/kg	0.0020	1	7/15/03	17:37	J. Adams	8260B	4753
Xylenes (Total)	< 0.0020	mg/kg	0.0020	1	7/15/03	17:37	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/15/03	17:37	J. Adams	8260B	4753
METALS									
Lead	32.5	mg/kg	1.20	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.0	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108838
Sample ID: 10036
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.5 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	5.75 g	5.0 ml	7/14/03	11:54	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	63. #	65. - 119.
EPH surr-o-Terphenyl	65.	53. - 123.
VOA Surr 1,2-DCA-d4	116.	58. - 139.
VOA Surr Toluene-d8	82.	71. - 127.
VOA Surr, 4-BFB	82.	60. - 141.
VOA Surr, DBFM	107.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108839
Sample ID: 10055
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 13:30
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	13.7	mg/kg	5.92	1	7/17/03	19:35	L. Watson	8015B	5879
TPH (Gasoline Range)	< 5.92	mg/kg	5.92	1	7/25/03	2:29	J. Redmond	8015B	4174
TPH (Diesel Range)	8.36	mg/kg	5.92	1	7/17/03	19:35	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0018	mg/kg	0.0018	1	7/15/03	18:06	J. Adams	8260B	4753
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/15/03	18:06	J. Adams	8260B	4753
Toluene	< 0.0018	mg/kg	0.0018	1	7/15/03	18:06	J. Adams	8260B	4753
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/15/03	18:06	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/15/03	18:06	J. Adams	8260B	4753
METALS									
Lead	28.0	mg/kg	1.13	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.4	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108839
Sample ID: 10055
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	24.8 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	6.77 g	5.0 ml	7/14/03	13:30	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	63. #	65. - 119.
EPH surr-o-Terphenyl	84.	53. - 123.
VOA Surr 1,2-DCA-d4	118.	58. - 139.
VOA Surr Toluene-d8	81.	71. - 127.
VOA Surr, 4-BFB	82.	60. - 141.
VOA Surr, DBFM	108.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108840
Sample ID: 10056
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 13:44
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.60	mg/kg	6.60	1	7/17/03	19:56	L. Watson	8015B	5879
TPH (Gasoline Range)	< 6.60	mg/kg	6.60	1	7/25/03	3:05	J. Redmond	8015B	4174
TPH (Diesel Range)	< 6.60	mg/kg	6.60	1	7/17/03	19:56	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0021	mg/kg	0.0021	1	7/15/03	18:36	J. Adams	8260B	4753
Ethylbenzene	< 0.0021	mg/kg	0.0021	1	7/15/03	18:36	J. Adams	8260B	4753
Toluene	< 0.0021	mg/kg	0.0021	1	7/15/03	18:36	J. Adams	8260B	4753
Xylenes (Total)	< 0.0021	mg/kg	0.0021	1	7/15/03	18:36	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0021	mg/kg	0.0021	1	7/15/03	18:36	J. Adams	8260B	4753
METALS									
Lead	15.6	mg/kg	1.28	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.8	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Laboratory Number: 03-A108840
Sample ID: 10056
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.4 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	24.9 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	6.10 g	5.0 ml	7/14/03	13:44	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	65.	65. - 119.
EPH surr-o-Terphenyl	72.	53. - 123.
VOA Surr 1,2-DCA-d4	115.	58. - 139.
VOA Surr Toluene-d8	82.	71. - 127.
VOA Surr, 4-BFB	82.	60. - 141.
VOA Surr, DBFM	108.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108841
Sample ID: 10054
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 14:25
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.01	mg/kg	6.01	1	7/17/03	20:16	L. Watson	8015B	5879
TPH (Gasoline Range)	< 6.01	mg/kg	6.01	1	7/25/03	3:41	J. Redmond	8015B	4174
TPH (Diesel Range)	< 6.01	mg/kg	6.01	1	7/17/03	20:16	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	< 0.0018	mg/kg	0.0018	1	7/15/03	19:06	J. Adams	8260B	4753
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/15/03	19:06	J. Adams	8260B	4753
Toluene	< 0.0018	mg/kg	0.0018	1	7/15/03	19:06	J. Adams	8260B	4753
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/15/03	19:06	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/15/03	19:06	J. Adams	8260B	4753
METALS									
Lead	20.1	mg/kg	1.15	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.2	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108841
Sample ID: 10054
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.7 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	6.62 g	5.0 ml	7/14/03	14:25	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
EPH surr-o-Terphenyl	77.	53. - 123.
VOA Surr 1,2-DCA-d4	119.	58. - 139.
VOA Surr Toluene-d8	82.	71. - 127.
VOA Surr, 4-BFB	81.	60. - 141.
VOA Surr, DBFM	110.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108842
Sample ID: 10051
Sample Type: Soil
Site ID:

Date Collected: 7/14/03
Time Collected: 15:22
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 108.	mg/kg	108.	20	7/18/03	10:00	L. Watson	8015B	5879
TPH (Gasoline Range)	< 5.41	mg/kg	5.41	1	7/25/03	20:33	J. Redmond	8015B	5027
TPH (Diesel Range)	321.	mg/kg	108.	20	7/18/03	10:00	L. Watson	8015B	5879
VOLATILE ORGANICS									
Benzene	0.0008 J	mg/kg	0.0018	1	7/15/03	19:36	J. Adams	8260B	4753
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/15/03	19:36	J. Adams	8260B	4753
Toluene	0.0014 J	mg/kg	0.0018	1	7/15/03	19:36	J. Adams	8260B	4753
Xylenes (Total)	< 0.001J	mg/kg	0.0018	1	7/15/03	19:36	J. Adams	8260B	4753
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/15/03	19:36	J. Adams	8260B	4753
METALS									
Lead	7.02	mg/kg	1.03	1	7/21/03	12:37	C.Johnson	6010B	7019
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	92.5	%			7/16/03		M. Cauthen	CLP	4177

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A108842
Sample ID: 10051
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/16/03		M. Ricke	SW3550
EPH/DRO	25.1 gm	1.0 ml	7/16/03		M. Ricke	3550
Volatile Organics	6.01 g	5.0 ml	7/14/03	15:22	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
VOA Surr 1,2-DCA-d4	117.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr, 4-BFB	95.	60. - 141.
VOA Surr. DBFM	110.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK CURRY

Lab Number: 03-A108843
Sample ID: TB-1
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/16/03	20:53	B.Herford	8260B	2035
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/16/03	20:53	B.Herford	8260B	2035
Toluene	0.0009 J	mg/l	0.0010	1	7/16/03	20:53	B.Herford	8260B	2035
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/16/03	20:53	B.Herford	8260B	2035
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/16/03	20:53	B.Herford	8260B	2035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	118.	70. - 133.
VOA Surr Toluene-d8	104.	76. - 123.
VOA Surr, 4-BFB	100.	71. - 132.
VOA Surr, DBFM	104.	74. - 128.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 7/15/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Gasoline Range)	mg/kg	< 5.00	5.95	10.0	60@	70. - 134.	4174	03-A108841
TPH (Diesel Range)	mg/kg	14.3	38.2	40.0	60	50. - 129.	5879	03-A108834
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0525	0.0500	105	68 - 136	2035	BLANK
Benzene	mg/kg	< 0.0003	0.0401	0.0500	80	53 - 140	4753	blank
Toluene	mg/l	< 0.0006	0.0561	0.0500	112	73 - 133	2035	BLANK
Toluene	mg/kg	< 0.0008	0.0346	0.0500	69	47 - 142	4753	blank
VOA Surr 1,2-DCA-d4	% Rec				113	70 - 133	2035	
VOA Surr Toluene-d8	% Rec				107	76 - 123	2035	
VOA Surr, 4-BFB	% Rec				95	71 - 132	2035	
VOA Surr, DBFM	% Rec				103	74 - 128	2035	
METALS								
Lead	mg/kg	15.0	199.	200.	92	80 - 120	7019	03-A108389

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETHRS						
TPH (Gasoline Range)	mg/kg	5.95	5.90	0.84	24.	4174
TPH (Diesel Range)	mg/kg	38.2	36.1	5.65	43.	5879

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 7/15/03

VOA PARAMETERS						
Benzene	mg/l	0.0525	0.0550	4.65	22.	2035
Benzene	mg/kg	0.0401	0.0490	19.98	34.	4753
Toluene	mg/l	0.0561	0.0589	4.87	22.	2035
Toluene	mg/kg	0.0346	0.0418	18.85	39.	4753
VOA Surr 1,2-DCA-d4	% Rec		116.			2035
VOA Surr 1,2-DCA-d4	% Rec		100.			4753
VOA Surr Toluene-d8	% Rec		107.			2035
VOA Surr Toluene-d8	% Rec		86.			4753
VOA Surr, 4-BFB	% Rec		97.			2035
VOA Surr, 4-BFB	% Rec		85.			4753
VOA Surr, DBFM	% Rec		106.			2035
VOA Surr, DBFM	% Rec		97.			4753

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	10.0	9.34	93	80 - 127	4174
TPH (Gasoline Range)	mg/kg	10.0	10.2	102	80 - 127	5027
TPH (Diesel Range)	mg/kg	40.0	30.6	76	50 - 125	5879
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	30.6	76	30 - 125	5879
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0521	104	78 - 125	2035
Benzene	mg/kg	0.0500	0.0493	99	75 - 127	4753
Ethylbenzene	mg/l	0.0500	0.0556	111	79 - 125	2035
Ethylbenzene	mg/kg	0.0500	0.0558	112	69 - 128	4753
Toluene	mg/l	0.0500	0.0546	109	79 - 125	2035
Toluene	mg/kg	0.0500	0.0536	107	72 - 128	4753
Xylenes (Total)	mg/l	0.150	0.169	113	78 - 127	2035
Xylenes (Total)	mg/kg	0.150	0.171	114	69 - 128	4753

Project QC continued . . .

TestAmerica
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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 3
Laboratory Receipt Date: 7/15/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methyl-t-butyl ether	mg/l	0.0500	0.0568	114	71 - 135	2035
Methyl-t-butyl ether	mg/kg	0.0500	0.0717	143 #	58 - 142	4753
VOA Surr 1,2-DCA-d4	% Rec			117	70 - 133	2035
VOA Surr 1,2-DCA-d4	% Rec			105	58 - 139	4753
VOA Surr Toluene-d8	% Rec			107	76 - 123	2035
VOA Surr Toluene-d8	% Rec			85	71 - 127	4753
VOA Surr, 4-BFB	% Rec			98	71 - 132	2035
VOA Surr, 4-BFB	% Rec			86	60 - 141	4753
VOA Surr, DBFM	% Rec			107	74 - 128	2035
VOA Surr, DBFM	% Rec			102	67 - 126	4753
METALS						
Lead	mg/kg .	200.	218.	109	80 - 120	7019

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/kg	15.0	14.4	4.08	15.	7019	03-A108389

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	5879	7/17/03	9:44

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 4
Laboratory Receipt Date: 7/15/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
TPH (Gasoline Range)	< 5.00	mg/kg	4174	7/24/03	22:52
TPH (Gasoline Range)	< 5.00	mg/kg	5027	7/25/03	19:56
TPH (Diesel Range)	< 10.0	mg/kg	5879	7/17/03	9:44
UST surr-Trifluorotoluene	65.	% Recovery	4174	7/24/03	22:52
UST surr-Trifluorotoluene	66.	% Recovery	5027	7/25/03	19:56
EPH surr-o-Terphenyl	74.	% Recovery	5879	7/17/03	9:44
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	2035	7/16/03	20:25
Benzene	< 0.0003	mg/kg	4753	7/15/03	11:43
Ethylbenzene	< 0.0003	mg/l	2035	7/16/03	20:25
Ethylbenzene	< 0.0005	mg/kg	4753	7/15/03	11:43
Toluene	< 0.0006	mg/l	2035	7/16/03	20:25
Toluene	< 0.0008	mg/kg	4753	7/15/03	11:43
Xylenes (Total)	< 0.0009	mg/l	2035	7/16/03	20:25
Xylenes (Total)	< 0.0013	mg/kg	4753	7/15/03	11:43
Methyl-t-butyl ether	< 0.0005	mg/l	2035	7/16/03	20:25
Methyl-t-butyl ether	< 0.0006	mg/kg	4753	7/15/03	11:43
VOA Surr 1,2-DCA-d4	119.	% Rec	2035	7/16/03	20:25
VOA Surr 1,2-DCA-d4	122.	% Rec	4753	7/15/03	11:43
VOA Surr Toluene-d8	105.	% Rec	2035	7/16/03	20:25
VOA Surr Toluene-d8	81.	% Rec	4753	7/15/03	11:43
VOA Surr, 4-BFB	100.	% Rec	2035	7/16/03	20:25
VOA Surr, 4-BFB	85.	% Rec	4753	7/15/03	11:43
VOA Surr, DBFM	105.	% Rec	2035	7/16/03	20:25
VOA Surr, DBFM	110.	% Rec	4753	7/15/03	11:43
METALS					
Lead	< 0.52	mg/kg	7019	7/21/03	12:37

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 5
Laboratory Receipt Date: 7/15/03

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339263

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT DOROTHY ROBERTS AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 339263

Client: Shaw E+I

Cooler Received On: 7/14/03 And Opened On: 7/14/03 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 1.° Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO....NA
   a. If yes, how many, what kind and where: (2) Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

FORM P360E (3_6/1/2000) **339263**

PENNZOIL-QUAKER STATE COMPANY

PQS code #3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 1 88247

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillen	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc	NAME: Test America, Inc
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: Barlow Rd	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828329
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME

☑ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX, MTBE 8260B	Lead 6010	PAH 8270C SIMS	TPH-GRO/DRO/ORO/KRO 8015B						COMMENTS
10028	7-14-03/0948	Soil	6	2-HNaSO4, HClO4 2-4oz 1-4oz Plastic		X	X	X	X			03A	108	834	*See Attached Yellow Sheet
10029	7-14-03/1020	Soil	6			X	X	X	X					35	regarding analyses (10% of
10030	7-14-03/1027	Soil	6			X	X	X	X					36	Analyses will be Level III
10033	7-14-03/1057	Soil	6			X	X	X	X					37	Data Packages.)
10036	7-14-03/1154	Soil	6			X	X	X	X					38	*Extract and hold PAHs
10055	7-14-03/1330	Soil	6			X	X	X	X					39	pending Analytical results
10056	7-14-03/1344	Soil	6			X	X	X	X					40	
10054	7-14-03/1425	Soil	6			X	X	X	X					41	
10051	7-14-03/1522	Soil	6			X	X	X	X					42	
TB-1	Lab	H_2O	2	2 VOAs		X							108	843	

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-14-03			Kirk Curry
COMPANY: Shaw Environmental	TIME: 1700	COMPANY:	TIME:	REMARKS
(1) RECEIVED BY SIGNATURE: [signature]	DATE: 7-15-03	(2) RECEIVED BY SIGNATURE:	DATE:	
COMPANY: TAI	TIME: 0815	COMPANY:	TIME:	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 5/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845337.
Laboratory Project Number: 339697.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
TB-2	03-A110544	
12048	03-A110545	7/15/03
10048	03-A110546	7/15/03
10043	03-A110547	7/15/03
10044	03-A110548	7/15/03
10045	03-A110549	7/15/03
10042	03-A110550	7/15/03
10039	03-A110551	7/15/03
10013	03-A110552	7/15/03
10014	03-A110553	7/15/03
10016	03-A110554	7/15/03
10017	03-A110555	7/15/03
10019	03-A110556	7/15/03
10020	03-A110557	7/15/03
12017	03-A110558	7/15/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glen L. Norton Report Date: 8/ 4/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110544
Sample ID: TB-2
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/18/03	2:46	B.Herford	8260B	2030
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/18/03	2:46	B.Herford	8260B	2030
Toluene	< 0.0010	mg/l	0.0010	1	7/18/03	2:46	B.Herford	8260B	2030
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/18/03	2:46	B.Herford	8260B	2030
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/18/03	2:46	B.Herford	8260B	2030

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	118.	70. - 133.
VOA Surr Toluene-d8	104.	76. - 123.
VOA Surr, 4-BFB	97.	71. - 132.
VOA Surr, DBFM	105.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110545
Sample ID: 12048
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 7:00
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 561.	mg/kg	561.	100	7/20/03	14:16	L. Watson	8015B	8799
TPH (Gasoline Range)	592.	mg/kg	56.1	10	7/28/03	11:15	J. Redmond	8015B	6744
TPH (Diesel Range)	2020	mg/kg	561.	100	7/20/03	14:16	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0019 J	mg/kg	0.0020	1	7/29/03	13:17	J. Yun	8260B	7484
Ethylbenzene	0.0145	mg/kg	0.0020	1	7/29/03	13:17	J. Yun	8260B	7484
Toluene	0.0114	mg/kg	0.0020	1	7/29/03	13:17	J. Yun	8260B	7484
Xylenes (Total)	0.0278	mg/kg	0.0020	1	7/29/03	13:17	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/29/03	13:17	J. Yun	8260B	7484
METALS									
Lead	6.74	mg/kg	1.09	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.2	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110545
Sample ID: 12048
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	29.8 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	5.43 g	5.0 ml	7/15/03	7:00	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
VOA Surr 1,2-DCA-d4	144. #	58. - 139.
VOA Surr Toluene-d8	94.	71. - 127.
VOA Surr, 4-BFB	1250 #	60. - 141.
VOA Surr, DBFM	97.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due
to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110546
Sample ID: 10048
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:05
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH OBO (C24-C40)	< 564.	mg/kg	564.	100	7/20/03	14:36	L. Watson	8015B	8799
TPH (Gasoline Range)	673.	mg/kg	564.	100	7/28/03	12:29	J. Redmond	8015B	6744
TPH (Diesel Range)	2310	mg/kg	564.	100	7/20/03	14:36	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0015 J	mg/kg	0.0020	1	7/29/03	18:40	J. Yun	8260B	7484
Ethylbenzene	0.0086	mg/kg	0.0020	1	7/29/03	18:40	J. Yun	8260B	7484
Toluene	0.0063	mg/kg	0.0020	1	7/29/03	18:40	J. Yun	8260B	7484
Xylenes (Total)	0.0384	mg/kg	0.0020	1	7/29/03	18:40	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/29/03	18:40	J. Yun	8260B	7484
METALS									
Lead	6.61	mg/kg	1.11	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	88.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110546
Sample ID: 10048
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	30.0 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	5.68 g	5.0 ml	7/15/03	8:05	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
VOA Surr 1,2-DCA-d4	19. #	58. - 139.
VOA Surr Toluene-d8	52. #	71. - 127.
VOA Surr, 4-BFB	1160 #	60. - 141.
VOA Surr, DBFM	96.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110547
Sample ID: 10043
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:42
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.05	mg/kg	6.05	1	7/20/03	14:56	L. Watson	8015B	8799
TPH (Gasoline Range)	< 6.05	mg/kg	6.05	1	7/28/03	3:57	J. Redmond	8015B	6744
TPH (Diesel Range)	< 6.05	mg/kg	6.05	1	7/20/03	14:56	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0011 J	mg/kg	0.0017	1	7/29/03	14:57	J. Yun	8260B	7484
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	14:57	J. Yun	8260B	7484
Toluene	0.0012 J	mg/kg	0.0017	1	7/29/03	14:57	J. Yun	8260B	7484
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/29/03	14:57	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/29/03	14:57	J. Yun	8260B	7484
METALS									
Lead	19.4	mg/kg	1.20	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110547
Sample ID: 10043
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	29.8 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	7.29 g	5.0 ml	7/15/03	8:42	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	93.	53. - 123.
VOA Surr 1,2-DCA-d4	91.	58. - 139.
VOA Surr Toluene-d8	106.	71. - 127.
VOA Surr, 4-BFB	107.	60. - 141.
VOA Surr, DBFM	94.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110548
Sample ID: 10044
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:52
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 12.9	mg/kg	12.9	2	7/20/03	15:16	L. Watson	8015B	8799
TPH (Gasoline Range)	24.4	mg/kg	6.44	1	7/28/03	4:34	J. Redmond	8015B	6744
TPH (Diesel Range)	85.8	mg/kg	12.9	2	7/20/03	15:16	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0019 J	mg/kg	0.0023	1	7/29/03	15:29	J. Yun	8260B	7484
Ethylbenzene	< 0.0023	mg/kg	0.0023	1	7/29/03	15:29	J. Yun	8260B	7484
Toluene	0.0050	mg/kg	0.0023	1	7/29/03	15:29	J. Yun	8260B	7484
Xylenes (Total)	0.0061	mg/kg	0.0023	1	7/29/03	15:29	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0023	mg/kg	0.0023	1	7/29/03	15:29	J. Yun	8260B	7484
METALS									
Lead	48.1	mg/kg	1.25	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110548
Sample ID: 10044
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	29.8 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	5.71 g	5.0 ml	6/15/03	8:52	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	92.	53. - 123.
VOA Surr 1,2-DCA-d4	89.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr. 4-BFB	101.	60. - 141.
VOA Surr, DBFM	96.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110549
Sample ID: 10045
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 9:03
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 66.3	mg/kg	66.3	10	7/20/03	15:36	L. Watson	8015B	8799
TPH (Gasoline Range)	531.	mg/kg	66.3	10	7/28/03	13:43	J. Redmond	8015B	6744
TPH (Diesel Range)	207.	mg/kg	66.3	10	7/20/03	15:36	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0123	mg/kg	0.0023	1	7/29/03	16:01	J. Yun	8260B	7484
Ethylbenzene	0.442	mg/kg	0.113	50	7/29/03	18:08	J. Yun	8260B	8011
Toluene	0.0332	mg/kg	0.0023	1	7/29/03	16:01	J. Yun	8260B	7484
Xylenes (Total)	0.294	mg/kg	0.113	50	7/29/03	18:08	J. Yun	8260B	8011
Methyl-t-butyl ether	< 0.0023	mg/kg	0.0023	1	7/29/03	16:01	J. Yun	8260B	7484
METALS									
Lead	23.5	mg/kg	1.29	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.4	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110549
Sample ID: 10045
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	30.3 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	5.86 g	5.0 ml	7/15/03	9:03	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	73.	65. - 119.
VOA Surr 1,2-DCA-d4	87.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr, 4-BFB	148. #	60. - 141.
VOA Surr, DBFM	91.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110550
Sample ID: 10042
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 10:05
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 13.0	mg/kg	13.0	2	7/20/03	15:56	L. Watson	8015B	8799
TPH (Gasoline Range)	2590	mg/kg	130.	20	7/28/03	15:45	J. Redmond	8015B	6744
TPH (Diesel Range)	76.3	mg/kg	13.0	2	7/20/03	15:56	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	0.0347	mg/kg	0.0021	1	7/29/03	16:33	J. Yun	8260B	7484
Ethylbenzene	1.96	mg/kg	0.103	50	7/29/03	17:36	J. Yun	8260B	8011
Toluene	0.0628	mg/kg	0.0021	1	7/29/03	16:33	J. Yun	8260B	7484
Xylenes (Total)	1.48	mg/kg	0.103	50	7/29/03	17:36	J. Yun	8260B	8011
Methyl-t-butyl ether	< 0.0021	mg/kg	0.0021	1	7/29/03	16:33	J. Yun	8260B	7484
METALS									
Lead	25.4	mg/kg	1.24	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.2	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110550
Sample ID: 10042
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	30.3 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.29 g	5.0 ml	7/15/03	10:05	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	93.	65. - 119.
EPH surr-o-Terphenyl	98.	53. - 123.
VOA Surr 1,2-DCA-d4	89.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr, 4-BFB	149. #	60. - 141.
VOA Surr, DBFM	89.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110551
Sample ID: 10039
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 11:07
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.64	mg/kg	6.64	1	7/20/03	2:19	L. Watson	8015B	8799
TPH (Gasoline Range)	< 6.64	mg/kg	6.64	1	7/28/03	5:47	J. Redmond	8015B	6744
TPH (Diesel Range)	< 6.64	mg/kg	6.64	1	7/20/03	2:19	L. Watson	8015B	8799
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/kg	0.0020	1	7/29/03	17:04	J. Yun	8260B	7484
Ethylbenzene	0.0019 J	mg/kg	0.0020	1	7/29/03	17:04	J. Yun	8260B	7484
Toluene	0.0013 J	mg/kg	0.0020	1	7/29/03	17:04	J. Yun	8260B	7484
Xylenes (Total)	< 0.002J	mg/kg	0.0020	1	7/29/03	17:04	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/29/03	17:04	J. Yun	8260B	7484
METALS									
Lead	13.2	mg/kg	1.31	1	7/22/03	10:42	C.Johnson	6010B	6735
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.3	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110551
Sample ID: 10039
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.5 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
EPH/DRO	30.3 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.62 g	5.0 ml	7/15/03	11:07	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	95.	53. - 123.
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	101.	71. - 127.
VOA Surr, 4-BFB	192. #	60. - 141.
VOA Surr, DBFM	95.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110552
Sample ID: 10013
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 13:18
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	10.8	mg/kg	6.53	1	7/20/03	2:39	L. Watson	8015B	8799
TPH (Gasoline Range)	< 6.53	mg/kg	6.53	1	7/28/03	6:23	J. Redmond	8015B	6744
TPH (Diesel Range)	< 6.53	mg/kg	6.53	1	7/20/03	2:39	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.0356 J	mg/kg	0.0490	1	7/29/03	6:24	J. Yun	8260B	7484
Benzene	0.0093	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
2-Butanone	< 0.0490	mg/kg	0.0490	1	7/29/03	6:24	J. Yun	8260B	7484
Carbon disulfide	0.00411	mg/kg	0.00196	1	7/29/03	6:24	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Chlorobenzene	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Ethylbenzene	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0131	mg/kg	0.00653	1	7/29/03	6:24	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.00980	mg/kg	0.00980	1	7/29/03	6:24	J. Yun	8260B	7484
Methylene chloride	0.0027 J	mg/kg	0.0050	1	7/29/03	6:24	J. Yun	8260B	7484
Tetrachloroethene	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Toluene	0.0013 J	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Trichloroethene	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Cyclohexanone	< 0.00653	mg/kg	0.00653	1	7/29/03	17:26	J. Adams	8260B	8021
Xylenes (Total)	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
Trichlorofluoromethane	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110552
Sample ID: 10013
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00980	mg/kg	0.00980	1	7/29/03	6:24	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/29/03	6:24	J. Yun	8260B	7484
VOLATILE ORGANICS by GC									
Methanol	< 13.1	mg/kg	13.1	1	7/30/03	17:16	M. Cauthen	8015	6760
2-Ethoxyethanol	< 26.1	mg/kg	26.1	1	7/30/03	17:16	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.25	mg/kg	1.25	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	27.0	mg/kg	1.25	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	21.0	mg/kg	1.25	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.61	mg/kg	2.61	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	27.0	mg/kg	2.61	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.6	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	30.2 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	29.9 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.66 g	5.0 ml	7/15/03	13:18	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110552
Sample ID: 10013
Project: 845337

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	98.	53. - 123.
VOA Surr 1,2-DCA-d4	99.	58. - 139.
VOA Surr Toluene-d8	103.	71. - 127.
VOA Surr, 4-BFB	102.	60. - 141.
VOA Surr, DBFM	98.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110553
Sample ID: 10014
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 13:27
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.65	mg/kg	6.65	1	7/20/03	2:00	L. Watson	8015B	8800
TPH (Gasoline Range)	< 6.65	mg/kg	6.65	1	7/22/03	19:18	J. Redmond	8015B	6749
TPH (Diesel Range)	< 6.65	mg/kg	6.65	1	7/20/03	2:00	L. Watson	8015B	8800
VOLATILE ORGANICS									
Acetone	0.0219 J	mg/kg	0.0447	1	7/29/03	5:52	J. Yun	8260B	7486
Benzene	0.0020	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
2-Butanone	< 0.0447	mg/kg	0.0447	1	7/29/03	5:52	J. Yun	8260B	7486
Carbon disulfide	0.00483	mg/kg	0.00178	1	7/29/03	5:52	J. Yun	8260B	7486
Carbon tetrachloride	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Chlorobenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
1,2-Dichlorobenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Isobutyl alcohol	< 0.0133	mg/kg	0.00665	1	7/29/03	5:52	J. Yun	8260B	8008
4-Methyl-2-pentanone	< 0.00894	mg/kg	0.00894	1	7/29/03	5:52	J. Yun	8260B	7486
Methylene chloride	0.0036 J	mg/kg	0.0045	1	7/29/03	5:52	J. Yun	8260B	7486
Tetrachloroethene	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Toluene	0.0013 J	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
1,1,1-Trichloroethane	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
1,1,2-Trichloroethane	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Trichloroethene	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Cyclohexanone	< 0.00665	mg/kg	0.00665	1	7/29/03	17:57	J. Adams	8260B	8009
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
Trichlorofluoromethane	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110553
Sample ID: 10014
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00894	mg/kg	0.00894	1	7/29/03	5:52	J. Yun	8260B	7486
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/29/03	5:52	J. Yun	8260B	7486
VOLATILE ORGANICS by GC									
Methanol	< 13.3	mg/kg	13.3	1	7/30/03	17:28	M. Cauthen	8015	6760
2-Ethoxyethanol	< 26.6	mg/kg	26.6	1	7/30/03	17:28	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.30	mg/kg	1.30	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	45.6	mg/kg	1.30	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	19.7	mg/kg	1.30	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.66	mg/kg	2.66	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	45.6	mg/kg	2.66	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.2	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/18/03		M. Ricke	SW3550
BNA's	30.1 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	24.7 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	7.44 g	5.0 ml	7/15/03	13:27	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	63. #	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110553
Sample ID: 10014
Project: 845337

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	104.	53. - 123.
VOA Surr 1,2-DCA-d4	93.	58. - 139.
VOA Surr Toluene-d8	104.	71. - 127.
VOA Surr, 4-BFB	97.	60. - 141.
VOA Surr, DBFM	98.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110554
Sample ID: 10016
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 15:17
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 112.	mg/kg	112.	20	7/20/03	12:36	L. Watson	8015B	8799
TPH (Gasoline Range)	< 5.59	mg/kg	5.59	1	7/28/03	7:00	J. Redmond	8015B	6744
TPH (Diesel Range)	320.	mg/kg	112.	20	7/20/03	12:36	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.0468	mg/kg	0.0404	1	7/29/03	6:56	J. Yun	8260B	7484
Benzene	0.0020	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
2-Butanone	< 0.0404	mg/kg	0.0404	1	7/29/03	6:56	J. Yun	8260B	7484
Carbon disulfide	0.00460	mg/kg	0.00161	1	7/29/03	6:56	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Chlorobenzene	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Ethylbenzene	0.0012 J	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0112	mg/kg	0.00559	1	7/29/03	6:56	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.00808	mg/kg	0.00808	1	7/29/03	6:56	J. Yun	8260B	7484
Methylene chloride	0.0031 J	mg/kg	0.0040	1	7/29/03	6:56	J. Yun	8260B	7484
Tetrachloroethene	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Toluene	0.0018	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Trichloroethene	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Cyclohexanone	< 0.00559	mg/kg	0.00559	1	7/29/03	20:01	J. Adams	8260B	8021
Xylenes (Total)	0.0030	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
Trichlorofluoromethane	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110554
Sample ID: 10016
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00808	mg/kg	0.00808	1	7/29/03	6:56	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0016	mg/kg	0.0016	1	7/29/03	6:56	J. Yun	8260B	7484
VOLATILE ORGANICS by GC									
Methanol	< 11.2	mg/kg	11.2	1	7/30/03	17:35	M. Cauthen	8015	6760
2-Ethoxyethanol	< 22.4	mg/kg	22.4	1	7/30/03	17:35	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.06	mg/kg	1.06	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	18.1	mg/kg	1.06	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	11.7	mg/kg	1.06	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.24	mg/kg	2.24	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	18.1	mg/kg	2.24	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.4	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	29.8 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	30.3 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.93 g	5.0 ml	7/15/03	15:17	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110554
Sample ID: 10016
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr, 4-BFB	190. #	60. - 141.
VOA Surr, DBFM	98.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110555
Sample ID: 10017
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 15:27
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.99	mg/kg	6.99	1	7/20/03	3:18	L. Watson	8015B	8799
TPH (Gasoline Range)	< 6.99	mg/kg	6.99	1	7/28/03	7:36	J. Redmond	8015B	6744
TPH (Diesel Range)	< 6.99	mg/kg	6.99	1	7/20/03	3:18	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.0813	mg/kg	0.0538	1	7/29/03	7:27	J. Yun	8260B	7484
Benzene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
2-Butanone	< 0.0538	mg/kg	0.0538	1	7/29/03	7:27	J. Yun	8260B	7484
Carbon disulfide	< 0.00215	mg/kg	0.00215	1	7/29/03	7:27	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Chlorobenzene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Ethylbenzene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0140	mg/kg	0.00699	1	7/29/03	7:27	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.0108	mg/kg	0.0108	1	7/29/03	7:27	J. Yun	8260B	7484
Methylene chloride	0.0046 J	mg/kg	0.0053	1	7/29/03	7:27	J. Yun	8260B	7484
Tetrachloroethene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Toluene	0.0013 J	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Trichloroethene	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Cyclohexanone	< 0.00699	mg/kg	0.00699	1	7/29/03	18:28	J. Adams	8260B	8021
Xylenes (Total)	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
Trichlorofluoromethane	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110555
Sample ID: 10017
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.0108	mg/kg	0.0108	1	7/29/03	7:27	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0021	mg/kg	0.0021	1	7/29/03	7:27	J. Yun	8260B	7484
VOLATILE ORGANICS by GC									
Methanol	< 14.0	mg/kg	14.0	1	7/30/03	17:41	M. Cauthen	8015	6760
2-Ethoxyethanol	< 28.0	mg/kg	28.0	1	7/30/03	17:41	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.37	mg/kg	1.37	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	37.2	mg/kg	1.37	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	17.2	mg/kg	1.37	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.80	mg/kg	2.80	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	37.2	mg/kg	2.80	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	71.5	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	29.9 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	30.4 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.50 g	5.0 ml	7/15/03	15:27	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110555
Sample ID: 10017
Project: 845337

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	85.	53. - 123.
VOA Surr 1,2-DCA-d4	91.	58. - 139.
VOA Surr Toluene-d8	101.	71. - 127.
VOA Surr, 4-BFB	98.	60. - 141.
VOA Surr, DBFM	95.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110556
Sample ID: 10019
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 16:13
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	1060	mg/kg	177.	30	7/21/03	14:44	L. Watson	8015B	8799
TPH (Gasoline Range)	< 5.90	mg/kg	5.90	1	7/28/03	8:13	J. Redmond	8015B	6744
TPH (Diesel Range)	327.	mg/kg	177.	30	7/21/03	14:44	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.215	mg/kg	0.0427	1	7/29/03	7:59	J. Yun	8260B	7484
Benzene	0.0011 J	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
2-Butanone	0.0406 J	mg/kg	0.0427	1	7/29/03	7:59	J. Yun	8260B	7484
Carbon disulfide	0.00393	mg/kg	0.00171	1	7/29/03	7:59	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Chlorobenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0118	mg/kg	0.00590	1	7/29/03	7:59	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.00855	mg/kg	0.00855	1	7/29/03	7:59	J. Yun	8260B	7484
Methylene chloride	0.0024 J	mg/kg	0.0043	1	7/29/03	7:59	J. Yun	8260B	7484
Tetrachloroethene	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Toluene	0.0011 J	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Trichloroethene	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Cyclohexanone	< 0.00590	mg/kg	0.00590	1	7/29/03	18:59	J. Adams	8260B	8021
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
Trichlorofluoromethane	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110556
Sample ID: 10019
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00855	mg/kg	0.00855	1	7/29/03	7:59	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/29/03	7:59	J. Yun	8260B	7484
VOLATILE ORGANICS by GC									
Methanol	< 11.8	mg/kg	11.8	1	7/30/03	17:47	M. Cauthen	8015	6760
2-Ethoxyethanol	< 23.6	mg/kg	23.6	1	7/30/03	17:47	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.16	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	32.6	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	195.	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.36	mg/kg	2.36	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	32.6	mg/kg	2.36	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.7	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	29.8 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	29.7 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.91 g	5.0 ml	7/15/03	16:13	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	63. #	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110556
Sample ID: 10019
Project: 845337
Page 3

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	99.	71. - 127.
VOA Surr, 4-BFB	98.	60. - 141.
VOA Surr, DBFM	97.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110557
Sample ID: 10020
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 16:22
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	834.	mg/kg	122.	20	7/21/03	9:40	L. Watson	8015B	8799
TPH (Gasoline Range)	15.9	mg/kg	6.11	1	7/28/03	8:49	J. Redmond	8015B	6744
TPH (Diesel Range)	257.	mg/kg	122.	20	7/21/03	9:40	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.103	mg/kg	0.0477	1	7/29/03	8:31	J. Yun	8260B	7484
Benzene	0.128	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
2-Butanone	0.0211 J	mg/kg	0.0477	1	7/29/03	8:31	J. Yun	8260B	7484
Carbon disulfide	0.00648	mg/kg	0.00191	1	7/29/03	8:31	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Chlorobenzene	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Ethylbenzene	0.0139	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0122	mg/kg	0.00611	1	7/29/03	8:31	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.00954	mg/kg	0.00954	1	7/29/03	8:31	J. Yun	8260B	7484
Methylene chloride	< 0.0048	mg/kg	0.0048	1	7/29/03	8:31	J. Yun	8260B	7484
Tetrachloroethene	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Toluene	0.0138	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Trichloroethene	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484
Cyclohexanone	< 0.00611	mg/kg	0.00611	1	7/29/03	21:04	J. Adams	8260B	8021
Xylenes (Total)	0.353	mg/kg	0.0954	50	7/29/03	19:11	J. Yun	8260B	8011
Trichlorofluoromethane	< 0.0020	mg/kg	0.0020	1	7/29/03	8:31	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110557
Sample ID: 10020
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00954	mg/kg	0.00954	1	7/29/03	8:31	J. Yun	8260B	7484
Methyl-t-butyl ether	0.625	mg/kg	0.0954	50	7/29/03	19:11	J. Yun	8260B	8011
VOLATILE ORGANICS by GC									
Methanol	< 12.2	mg/kg	12.2	1	7/30/03	18:00	M. Cauthen	8015	6760
2-Ethoxyethanol	< 24.4	mg/kg	24.4	1	7/30/03	18:00	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.20	mg/kg	1.20	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	34.8	mg/kg	1.20	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	26.5	mg/kg	1.20	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.44	mg/kg	2.44	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	34.8	mg/kg	2.44	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.8	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.4 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	30.2 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	30.5 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.41 g	5.0 ml	7/15/03	16:22	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110557
Sample ID: 10020
Project: 845337
Page 3

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	84.	58. - 139.
VOA Surr Toluene-d8	100.	71. - 127.
VOA Surr, 4-BFB	107.	60. - 141.
VOA Surr, DBFM	89.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A110558
Sample ID: 12017
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 7:15
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.02	mg/kg	6.02	1	7/20/03	13:36	L. Watson	8015B	8799
TPH (Gasoline Range)	< 6.02	mg/kg	6.02	1	7/28/03	10:39	J. Redmond	8015B	6744
TPH (Diesel Range)	< 6.02	mg/kg	6.02	1	7/20/03	13:36	L. Watson	8015B	8799
VOLATILE ORGANICS									
Acetone	0.0797	mg/kg	0.0473	1	7/29/03	9:02	J. Yun	8260B	7484
Benzene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
2-Butanone	< 0.0473	mg/kg	0.0473	1	7/29/03	9:02	J. Yun	8260B	7484
Carbon disulfide	< 0.00189	mg/kg	0.00189	1	7/29/03	9:02	J. Yun	8260B	7484
Carbon tetrachloride	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Chlorobenzene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
1,2-Dichlorobenzene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Isobutyl alcohol	< 0.0120	mg/kg	0.00602	1	7/29/03	9:02	J. Yun	8260B	8016
4-Methyl-2-pentanone	< 0.00946	mg/kg	0.00946	1	7/29/03	9:02	J. Yun	8260B	7484
Methylene chloride	0.0041 J	mg/kg	0.0047	1	7/29/03	9:02	J. Yun	8260B	7484
Tetrachloroethene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Toluene	0.0013 J	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
1,1,1-Trichloroethane	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
1,1,2-Trichloroethane	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Trichloroethene	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Cyclohexanone	< 0.00602	mg/kg	0.00602	1	7/29/03	19:30	J. Adams	8260B	8021
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
Trichlorofluoromethane	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110558
Sample ID: 12017
Project: 845337
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Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00946	mg/kg	0.00946	1	7/29/03	9:02	J. Yun	8260B	7484
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/29/03	9:02	J. Yun	8260B	7484
VOLATILE ORGANICS by GC									
Methanol	< 12.0	mg/kg	12.0	1	7/30/03	17:22	M. Cauthen	8015	6760
2-Ethoxyethanol	< 24.1	mg/kg	24.1	1	7/30/03	17:22	M. Cauthen	8015	6760
METALS									
Cadmium	< 1.16	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium	31.8	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Lead	14.3	mg/kg	1.16	1	7/22/03	10:42	C.Johnson	6010B	6735
Chromium, hexavalent	< 2.41	mg/kg	2.41	2	7/21/03	15:03	S. Duncan	7196A	6758
Chromium, trivalent	31.8	mg/kg	2.41	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.1	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Cauthen	SW3550
BNA's	29.9 gm	1.0 ml	7/18/03		M. Ricke	3550
EPH/DRO	30.0 gm	1.0 ml	7/18/03		M. Ricke	3550
Volatile Organics	6.36 g	5.0 ml	7/15/03	7:15	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.

Sample report continued . . .

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Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	99.	53. - 123.
VOA Surr 1,2-DCA-d4	91.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr, 4-BFB	97.	60. - 141.
VOA Surr, DBFM	94.	67. - 126.

LABORATORY COMMENTS:

ND - Not detected at the limit of detecrion
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
TRPH-d The MS/MSD recoveries could not be determined due to the sample matrix.

End of Sample Report.

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Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Gasoline Range)	mg/kg	< 5.00	39.0	50.0	78	62. - 129.	6749	03-A110553
TPH (Gasoline Range)	mg/kg	18.9	79.3	50.0	121	62. - 129.	6744	03-A110548
TPH (Diesel Range)	mg/kg	< 10.0	31.5	40.0	79	50. - 129.	8800	03-A110553
TRPH ORO (C24-C40)	mg/kg	< 10.0	31.5	40.0	79	30. - 125.	8800	03-A110553
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0540	0.0500	108	68 - 136	2030	BLANK
Benzene	mg/kg	0.0015	0.0256	0.0500	48#	53 - 140	7484	03-A110548
Benzene	mg/kg	0.0015	0.0453	0.0500	88	53 - 140	7486	03-A110553
Chlorobenzene	mg/kg	< 0.0013	0.0429	0.0500	86	43 - 145	7486	03-A110553
Toluene	mg/l	< 0.0006	0.0565	0.0500	113	73 - 133	2030	BLANK
Toluene	mg/kg	0.0039	0.0243	0.0500	41#	47 - 142	7484	03-A110548
Toluene	mg/kg	0.0010	0.0446	0.0500	87	47 - 142	7486	03-A110553
Trichloroethene	mg/kg	< 0.0013	0.0479	0.0500	96	51 - 139	7486	03-A110553
Tetrachloroethene	mg/kg	< 0.0013	0.0460	0.0500	92	42 - 144	7486	03-A110553
VOA Surr 1,2-DCA-d4	% Rec				95	58 - 139	7484	
VOA Surr 1,2-DCA-d4	% Rec				95	58 - 139	7486	
VOA Surr Toluene-d8	% Rec				105	71 - 127	7484	
VOA Surr Toluene-d8	% Rec				99	71 - 127	7486	
VOA Surr, 4-BFB	% Rec				99	60 - 141	7484	
VOA Surr, 4-BFB	% Rec				101	60 - 141	7486	
VOA Surr, DBFM	% Rec				98	67 - 126	7484	
VOA Surr, DBFM	% Rec				97	67 - 126	7486	

Project QC continued . . .

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METALS								
Lead	mg/kg	37.3	138.	100.	101	80 - 120	6735	03-A110548
Chromium, hexavalent	mg/kg	< 2.00	33.4	40.0	84	80 - 120	6758	03-A110553
Methanol	mg/kg	< 10.0	44.5	50.0	89	40 - 140	6760	03-A110553
Methanol	mg/kg	< 10.0	44.2	50.0	88	40 - 140	6760	03-A110553
2-Ethoxyethanol	mg/kg	< 20.0	32.7	50.0	65	40 - 140	6760	03-A110553
2-Ethoxyethanol	mg/kg	< 20.0	27.6	50.0	55	40 - 140	6760	03-A110553

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	31.5	35.4	11.66	47.	8800
TPH (Gasoline Range)	mg/kg	39.0	39.4	1.02	21.	6749
TPH (Gasoline Range)	mg/kg	79.3	33.9	80.21#	21.	6744
TPH (Diesel Range)	mg/kg	31.5	35.4	11.66	43.	8800
VOA PARAMETERS						
Benzene	mg/l	0.0540	0.0544	0.74	22.	2030
Benzene	mg/kg	0.0256	0.0212	18.80	34.	7484
Benzene	mg/kg	0.0453	0.0439	3.14	34.	7486
Chlorobenzene	mg/kg	0.0200	0.0146	31.21	44.	7484
Chlorobenzene	mg/kg	0.0429	0.0413	3.80	44.	7486
Toluene	mg/l	0.0565	0.0579	2.45	22.	2030
Toluene	mg/kg	0.0243	0.0187	26.05	39.	7484
Toluene	mg/kg	0.0446	0.0444	0.45	39.	7486
Trichloroethene	mg/kg	0.0240	0.0188	24.30	38.	7484
Trichloroethene	mg/kg	0.0479	0.0462	3.61	38.	7486
Tetrachloroethene	mg/kg	0.0210	0.0146	35.96	41.	7484
Tetrachloroethene	mg/kg	0.0460	0.0443	3.77	41.	7486

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VOA Surr 1,2-DCA-d4	% Rec		117.			2030
VOA Surr 1,2-DCA-d4	% Rec		96.			7484
VOA Surr 1,2-DCA-d4	% Rec		94.			7486
VOA Surr Toluene-d8	% Rec		107.			2030
VOA Surr Toluene-d8	% Rec		103.			7484
VOA Surr Toluene-d8	% Rec		100.			7486
VOA Surr, 4-BFB	% Rec		96.			2030
VOA Surr, 4-BFB	% Rec		98.			7484
VOA Surr, 4-BFB	% Rec		100.			7486
VOA Surr, DBFM	% Rec		105.			2030
VOA Surr, DBFM	% Rec		97.			7484
VOA Surr, DBFM	% Rec		98.			7486
METALS						
Chromium, hexavalent	mg/kg	33.4	33.6	0.60	20	6758
MISC PARAMETERS						
Methanol	mg/kg	44.5	44.2	0.68	50	6760
2-Ethoxyethanol	mg/kg	32.7	27.6	16.92	50	6760

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	50.0	55.0	110	75 - 121	6749
TPH (Gasoline Range)	mg/kg	50.0	45.5	91	75 - 121	6744
TPH (Diesel Range)	mg/kg	40.0	32.0	80	50 - 125	8799
TPH (Diesel Range)	mg/kg	40.0	37.0	92	50 - 125	8800
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	32.0	80	30 - 125	8799
TRPH ORO (C24-C40)	mg/kg	40.0	37.0	92	30 - 125	8800

Project QC continued . . .

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VOA PARAMETERS						
Acetone	mg/kg	0.250	0.198	79	40 - 154	7484
Acetone	mg/kg	0.250	0.198	79	40 - 154	7486
Benzene	mg/l	0.0500	0.0554	111	78 - 125	2030
Benzene	mg/kg	0.0500	0.0473	95	75 - 127	7484
Benzene	mg/kg	0.0500	0.0473	95	75 - 127	7486
2-Butanone	mg/kg	0.250	0.216	86	56 - 149	7484
2-Butanone	mg/kg	0.250	0.216	86	56 - 149	7486
Carbon disulfide	mg/kg	0.0500	0.0463	93	59 - 138	7484
Carbon disulfide	mg/kg	0.0500	0.0463	93	59 - 138	7486
Carbon tetrachloride	mg/kg	0.0500	0.0470	94	61 - 134	7484
Carbon tetrachloride	mg/kg	0.0500	0.0470	94	61 - 134	7486
Chlorobenzene	mg/kg	0.0500	0.0473	95	74 - 125	7484
Chlorobenzene	mg/kg	0.0500	0.0473	95	74 - 125	7486
1,2-Dichlorobenzene	mg/kg	0.0500	0.0486	97	38 - 152	7484
1,2-Dichlorobenzene	mg/kg	0.0500	0.0486	97	38 - 152	7486
Ethylbenzene	mg/l	0.0500	0.0600	120	79 - 125	2030
Ethylbenzene	mg/kg	0.0500	0.0468	94	69 - 128	7484
Ethylbenzene	mg/kg	0.0500	0.0468	94	69 - 128	7486
Ethylbenzene	mg/kg	0.0500	0.0479	96	69 - 128	8011
4-Methyl-2-pentanone	mg/kg	0.250	0.194	78	56 - 151	7484
4-Methyl-2-pentanone	mg/kg	0.250	0.194	78	56 - 151	7486
Methylene chloride	mg/kg	0.0500	0.0481	96	58 - 137	7484
Methylene chloride	mg/kg	0.0500	0.0481	96	58 - 137	7486
Tetrachloroethene	mg/kg	0.0500	0.0492	98	65 - 132	7484
Tetrachloroethene	mg/kg	0.0500	0.0492	98	65 - 132	7486
Toluene	mg/l	0.0500	0.0588	118	79 - 125	2030
Toluene	mg/kg	0.0500	0.0484	97	72 - 128	7484
Toluene	mg/kg	0.0500	0.0484	97	72 - 128	7486
1,1,1-Trichloroethane	mg/kg	0.0500	0.0482	96	65 - 130	7484
1,1,1-Trichloroethane	mg/kg	0.0500	0.0482	96	65 - 130	7486
1,1,2-Trichloroethane	mg/kg	0.0500	0.0459	92	72 - 133	7484
1,1,2-Trichloroethane	mg/kg	0.0500	0.0459	92	72 - 133	7486
Trichloroethene	mg/kg	0.0500	0.0490	98	71 - 128	7484
Trichloroethene	mg/kg	0.0500	0.0490	98	71 - 128	7486
Xylenes (Total)	mg/l	0.150	0.182	121	78 - 127	2030

Project QC continued . . .

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Xylenes (Total)	mg/kg	0.150	0.140	93	69 - 128	7484
Xylenes (Total)	mg/kg	0.150	0.140	93	69 - 128	7486
Xylenes (Total)	mg/kg	0.150	0.142	95	69 - 128	8011
Trichlorofluoromethane	mg/kg	0.0500	0.0511	102	61 - 137	7484
Trichlorofluoromethane	mg/kg	0.0500	0.0511	102	61 - 137	7486
n-Butanol	mg/kg	0.500	0.433	87	59 - 140	7484
n-Butanol	mg/kg	0.500	0.433	87	59 - 140	7486
Methyl-t-butyl ether	mg/l	0.0500	0.0587	117	71 - 135	2030
Methyl-t-butyl ether	mg/kg	0.0500	0.0454	91	58 - 142	7484
Methyl-t-butyl ether	mg/kg	0.0500	0.0454	91	58 - 142	7486
Methyl-t-butyl ether	mg/kg	0.0500	0.0447	89	58 - 142	8011
Methanol	mg/kg	50.0	45.9	92	72 - 124	6760
2-Ethoxyethanol	mg/kg	50.0	55.7	111	55 - 138	6760
VOA Surr 1,2-DCA-d4	% Rec			117	70 - 133	2030
VOA Surr 1,2-DCA-d4	% Rec			85	58 - 139	7484
VOA Surr 1,2-DCA-d4	% Rec			85	58 - 139	7486
VOA Surr 1,2-DCA-d4	% Rec			82	58 - 139	8011
VOA Surr Toluene-d8	% Rec			108	76 - 123	2030
VOA Surr Toluene-d8	% Rec			101	71 - 127	7484
VOA Surr Toluene-d8	% Rec			101	71 - 127	7486
VOA Surr Toluene-d8	% Rec			101	71 - 127	8011
VOA Surr, 4-BFB	% Rec			100	71 - 132	2030
VOA Surr, 4-BFB	% Rec			99	60 - 141	7484
VOA Surr, 4-BFB	% Rec			99	60 - 141	7486
VOA Surr, 4-BFB	% Rec			99	60 - 141	8011
VOA Surr, DBFM	% Rec			107	74 - 128	2030
VOA Surr, DBFM	% Rec			96	67 - 126	7484
VOA Surr, DBFM	% Rec			96	67 - 126	7486
VOA Surr, DBFM	% Rec			95	67 - 126	8011

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METALS						
Cadmium	mg/kg	20.0	18.6	93	80 - 120	6735
Chromium	mg/kg	40.0	40.6	102	80 - 120	6735
Lead	mg/kg	100.	98.4	98	80 - 120	6735
Chromium, hexavalent	mg/kg	40.0	39.2	98	80 - 120	6758
MISC PARAMETERS						
Methanol	mg/kg	50.0	45.9	92	72 - 124	6760
2-Ethoxyethanol	mg/kg	50.0	55.7	111	55 - 138	6760

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/kg	37.3	37.9	1.60	15.	6735	03-A110548
Chromium, hexavalent	mg/kg	< 2.00	< 2.00	N/A	15.	6758	03-A110558

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	8799	7/20/03	4:38
TRPH ORO (C24-C40)	< 10.0	mg/kg	8800	7/20/03	12:41
TPH (Gasoline Range)	< 5.00	mg/kg	6749	7/22/03	14:55
TPH (Gasoline Range)	< 5.00	mg/kg	6744	7/28/03	2:44
TPH (Diesel Range)	< 10.0	mg/kg	8799	7/20/03	4:38
TPH (Diesel Range)	< 10.0	mg/kg	8800	7/20/03	12:41

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UST surr-Trifluorotoluene	63.	% Recovery	6749	7/22/03	14:55
UST surr-Trifluorotoluene	67.	% Recovery	6744	7/28/03	2:44
EPH surr-o-Terphenyl	95.	% Recovery	8799	7/20/03	4:38
EPH surr-o-Terphenyl	101.	% Recovery	8800	7/20/03	12:41
VOA PARAMETERS					
Acetone	< 0.0103	mg/kg	7484	7/29/03	5:20
Acetone	< 0.0103	mg/kg	7486	7/29/03	5:20
Benzene	< 0.0005	mg/l	2030	7/18/03	1:49
Benzene	< 0.0003	mg/kg	7484	7/29/03	5:20
Benzene	< 0.0003	mg/kg	7486	7/29/03	5:20
2-Butanone	< 0.0210	mg/kg	7484	7/29/03	5:20
2-Butanone	< 0.0210	mg/kg	7486	7/29/03	5:20
Carbon disulfide	< 0.00040	mg/kg	7484	7/29/03	5:20
Carbon disulfide	< 0.00040	mg/kg	7486	7/29/03	5:20
Carbon tetrachloride	< 0.0006	mg/kg	7484	7/29/03	5:20
Carbon tetrachloride	< 0.0006	mg/kg	7486	7/29/03	5:20
Chlorobenzene	< 0.0006	mg/kg	7484	7/29/03	5:20
Chlorobenzene	< 0.0006	mg/kg	7486	7/29/03	5:20
1,2-Dichlorobenzene	< 0.0004	mg/kg	7484	7/29/03	5:20
1,2-Dichlorobenzene	< 0.0004	mg/kg	7486	7/29/03	5:20
Ethylbenzene	< 0.0003	mg/l	2030	7/18/03	1:49
Ethylbenzene	< 0.0005	mg/kg	7484	7/29/03	5:20
Ethylbenzene	< 0.0005	mg/kg	7486	7/29/03	5:20
Ethylbenzene	< 0.0005	mg/kg	8011	7/29/03	12:45
4-Methyl-2-pentanone	< 0.00360	mg/kg	7484	7/29/03	5:20
4-Methyl-2-pentanone	< 0.00360	mg/kg	7486	7/29/03	5:20
Methylene chloride	0.0012	mg/kg	7484	7/29/03	5:20
Methylene chloride	0.0012	mg/kg	7486	7/29/03	5:20
Tetrachloroethene	< 0.0005	mg/kg	7484	7/29/03	5:20
Tetrachloroethene	< 0.0005	mg/kg	7486	7/29/03	5:20
Toluene	< 0.0006	mg/l	2030	7/18/03	1:49
Toluene	< 0.0008	mg/kg	7484	7/29/03	5:20
Toluene	< 0.0008	mg/kg	7486	7/29/03	5:20
1,1,1-Trichloroethane	< 0.0008	mg/kg	7484	7/29/03	5:20
1,1,1-Trichloroethane	< 0.0008	mg/kg	7486	7/29/03	5:20
1,1,2-Trichloroethane	< 0.0005	mg/kg	7484	7/29/03	5:20

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,2-Trichloroethane	< 0.0005	mg/kg	7486	7/29/03	5:20
Trichloroethene	< 0.0006	mg/kg	7484	7/29/03	5:20
Trichloroethene	< 0.0006	mg/kg	7486	7/29/03	5:20
Xylenes (Total)	< 0.0009	mg/l	2030	7/18/03	1:49
Xylenes (Total)	< 0.0013	mg/kg	7484	7/29/03	5:20
Xylenes (Total)	< 0.0013	mg/kg	7486	7/29/03	5:20
Xylenes (Total)	< 0.0013	mg/kg	8011	7/29/03	12:45
Trichlorofluoromethane	< 0.0005	mg/kg	7484	7/29/03	5:20
Trichlorofluoromethane	< 0.0005	mg/kg	7486	7/29/03	5:20
n-Butanol	< 0.100	mg/kg	7484	7/29/03	5:20
n-Butanol	< 0.100	mg/kg	7486	7/29/03	5:20
Methyl-t-butyl ether	< 0.0005	mg/l	2030	7/18/03	1:49
Methyl-t-butyl ether	< 0.0006	mg/kg	7484	7/29/03	5:20
Methyl-t-butyl ether	< 0.0006	mg/kg	7486	7/29/03	5:20
Methyl-t-butyl ether	< 0.0006	mg/kg	8011	7/29/03	12:45
VOA Surr 1,2-DCA-d4	118.	% Rec	2030	7/18/03	1:49
VOA Surr 1,2-DCA-d4	95.	% Rec	7484	7/29/03	5:20
VOA Surr 1,2-DCA-d4	95.	% Rec	7486	7/29/03	5:20
VOA Surr 1,2-DCA-d4	93.	% Rec	8011	7/29/03	12:45
VOA Surr Toluene-d8	107.	% Rec	2030	7/18/03	1:49
VOA Surr Toluene-d8	103.	% Rec	7484	7/29/03	5:20
VOA Surr Toluene-d8	103.	% Rec	7486	7/29/03	5:20
VOA Surr Toluene-d8	103.	% Rec	8011	7/29/03	12:45
VOA Surr, 4-BFB	101.	% Rec	2030	7/18/03	1:49
VOA Surr, 4-BFB	100.	% Rec	7484	7/29/03	5:20
VOA Surr, 4-BFB	100.	% Rec	7486	7/29/03	5:20
VOA Surr, 4-BFB	101.	% Rec	8011	7/29/03	12:45
VOA Surr, DBFM	104.	% Rec	2030	7/18/03	1:49
VOA Surr, DBFM	96.	% Rec	7484	7/29/03	5:20
VOA Surr, DBFM	96.	% Rec	7486	7/29/03	5:20
VOA Surr, DBFM	95.	% Rec	8011	7/29/03	12:45

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Page: 9
Laboratory Receipt Date: 7/17/03

METALS					
Cadmium	< 0.14	mg/kg	6735	7/22/03	10:42
Chromium	< 0.40	mg/kg	6735	7/22/03	10:42
Lead	< 0.52	mg/kg	6735	7/22/03	10:42
Chromium, hexavalent	< 2.00	mg/kg	6758	7/21/03	15:03
Methanol	< 10.0	mg/kg	6760	7/30/03	16:40
2-Ethoxyethanol	< 20.0	mg/kg	6760	7/30/03	16:40

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339697

339697

Kenny Bundy

From: Robertson, George [George.Robertson@shawgrp.com]
Sent: Thursday, July 17, 2003 11:25 AM
To: Kenny Bundy
Subject: RE: Etowah Terminal Sampled on 7/15/03

Kenny,

I sent you an e-mail response this morning before I left for the site. I have copied it and pased it below. Please call if you have any questions.

I received your message re the chromium VI sample that is delayed by Fed Ex. Thank you for alerting us. We need to cancel the analysis for the rinsate blank sample. Please delete the rinsate blank sample listed as sample ID 11020 collected on 7/15/03 at 1700, matrix water, no of cont. 12 etc. (next to the bottom line of C-O-C 2 of 3 (88245). Since the chromium VI would be out of hold, do not run any of the analyses for this particular sample. If you have any questions, please call or e-mail. Thanks.

-----Original Message-----
From: Kenny Bundy [mailto:KBundy@testamericainc.com]
Sent: Thursday, July 17, 2003 10:52 AM
To: Robertson, George
Cc: Mark Hollingsworth
Subject: Etowah Terminal Sampled on 7/15/03

George,
I left you a voice message yesterday regarding the Fed Ex delay for your cooler 8381998288340. It has been held up in the Memphis Hub yesterday, and today 7/17/03. The hexachrome water sample that is in the cooler is out of hold, and we did not receive any of the Metal Soil containers, which they can come in at any Temperature, and have a 6 month hold time. Also we did not receive any of the water liters for 8270 SIM, DRO, and 8270 solvents. I've notified our shipping supervisor, and he is looking in to why the cooler has yet to be sent. I'll let you know once I have a reason.

Kenny Bundy
TestAmerica-Nashville
Project Management Team
1-800-765-0980 Ext. 1166
kbundy@testamericainc.com

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339697

Kenny Bundy

From: Robertson, George [George.Robertson@shawgrp.com]
Sent: Thursday, July 17, 2003 2:17 PM
To: Kenny Bundy
Cc: Carpenter, David
Subject: PQS Etowah Termianl Charleston WV

Kenny,
I spoke with Mark Hollinsworth regarding the other rinsate blank in the missing cooler. We will need to void this rinsate blank also. Thus, sample 11045 should be canceled and not analyzed. We should be able to collect substitute rinsate blanks as the work progressses. Thank you for alerting us to the situation. If needed, I can fax over a copy of the amended C-O-C (p 2 of 3, PQS 88245).

George A. Robertson
Shaw Environmental, Inc.
1400B Ohio Avenue
Dunbar, West Virginia 25064
Ph: 304.768.2600
Fx: 304.768.4523

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The Shaw Group Inc.
http://www.shawgrp.com

339697

TestAmerica INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Mbeasley	**Phone:**		NC Closed	☑
Client Name:	Pennzoil-Quaker	**Sample Range:**		Date Closed	7/17/2003
Client Contact:	Dan McQuillan	**SDG:**			
Client Account:	3277	**Analyst:**	5		
Date Created:	7/16/2003	**Supervisor:**			
NC #:		**NC Type:**	NC Analytical 1		

Process: Other NC/Process: See Comment Section Below

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Mbeasley on 7/17/2003 2:25:27 PM
NC closed with out comments

****

Comment added by: Kbundy on 7/17/2003 2:23:43 PM
Per Conversation with George Robertson of Shaw E&I, we need to cancel samples 11020 and 11045 "completely" both are waters. They will re-sample for these since they are still at the site. Run the Trip Blanks that we've received. Also run the metals, out of the 2-4oz containers we've received per soil sample.

****

Comment added by: Mbeasley on 7/17/2003 9:35:32 AM
Tracked cooler, still in Memphis hub

****

Comment added by: Kbundy on 7/16/2003 2:00:27 PM
What other samples are we missing with this cooler, specifically what sample and what containers. They might want to re-sample, if they are already there.

****

Cooler #838199828340 not rec'd, still in Memphis. Hexachrome water is in that cooler. Rec'd all of the VOAs (soils & waters) & all 4oz jars

2960 Foster Creighton Drive • Nashville, Tennessee 37204

Solvent Screen Constituents SOIL				
Analyte	MDL mg/kg	QL mg/kg	Table 60-3B Industrial De-Minimis mg/kg	Analytical Method
Isobutanol	NA	100	77,000	8260
N-butanol	NA	100	88,000	8260
Methanol	1	10	440,000	8015B
2-Ethoxyethanol	1.62	20	350,000	8015B
Acetone	10.29	50	6,200	8260
Carbon disulfide	0.43	2	1,200	8260
Carbon tetrachloride	0.61	2	5.3	8260
Chlorobenzene	0.63	2	540	8260
Cyclohexanone	NA	10	1,000,000	8260
Ethylbenzene	0.47	2	6,000	8260
Methylene chloride	0.66	10	210	8260
MEK	21	50	28,000	8260
MIBK	3.6	10	2,900	8260
Tetrachloroethene	0.46	2	190	8260
Toluene	0.77	2	2,000	8260
111-TCA	0.75	2	3,200	8260
Trichloroethene	0.59	2	61	8260
Xylenes	1.31	2	4,500	8260
112-TCA	0.52	2	19	8260
Benzene	0.33	2	15	8260
o-Cresol (2-Methylphenol)	0.04	0.333	44,000	8270C
3-Methylphenol (m-cresol)	0.04	0.333	44,000	8270C
p-cresol (4-Methylphenol)	0.04	0.333	4,400	8270C
12-DCB	0.4	2	3,300	8260
Pyridine	0.05	0.333	880	8270C
Nitrobenzene	0.05	0.333	110	8270C
Trichlorofluoromethane	0.52	2	1,300	8260

(a) values are based on residential risk-based de-minimis levels

339697

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 339697

Client: Pennzoil

Cooler Received On: 7/16/03 And Opened On: 7/16/03 By: Mark Beasley

(Signature)

1. Temperature of Cooler when opened 1.4 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES....NO....NA
   a. If yes, how many, what kind and where: 2 Front 1 Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES....NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street Fedex Misc.

FORM P3606P
(3_6/1/2000)

339697 PENNZOIL-QUAKER STATE COMPANY

Clien Code = 3277

DISTRIBUTION:
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CHAIN OF CUSTODY RECORD

Page 1 of 3 88246

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 ~~Millam~~ Kee Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: Barlow Rd	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828340, 838199828307, 838199849978
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 3

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX, MTBE 8260B	Lead 6010	PAH 8270C SIMS	TPH-GRO/DRO/ORO/KRO 8015B 8015B, 8260B	8270C Solvents (See List)	6010B Cadmium, Chromium III	7196A Chromium IV	COMMENTS
12048	7-15-03/0700	Soil	6	3-VOA 2-4oz 2-4oz G Pl.	110545	X	X	X	X				*See Attached Yellow Sheet
2 10048	/0805		6		46	X	X	X	X				regarding analyses (10% of
10043	/0842		6		47	X	X	X	X				analyses will be Level III
4 10044	/0852		6		110548	X	X	X	X				data packages.)
10044MS	/0852		6			X	X	X	X				* Extract and hold PAHs
6 10044MSD	/0852		6			X	X	X	X				pending Analytical Results,
10045	/0903		6		110549	X	X	X	X				as well as PAH solvents.
8 10042	/1005		6		50	X	X	X	X				(See Attached Blue Sheet)
10039	/1107		6		51	X	X	X	X				
10 10013	/1318		7	3 VOA 2-4oz 3-4oz G Pl.	110552	X	X	X	X	X	X	X	

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
[signature]	7-15-03			Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1800	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE: [signature]	DATE: 7/16/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY: 1.4	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

FORM P3606P
(3_6/1/2000)

339697

PENNZOIL-QUAKER STATE COMPANY

Client Code 3277

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CHAIN OF CUSTODY RECORD

88245

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc
ADDRESS: 700 Milam	PROJECT NAME: PQS #5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828340, 838199828307, 838199849978
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 3

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B BTEX, MTBE	6010 Lead	8270C SIMS	TPH-GRO/ORO/ORO/KRO 8015B 8015B, 8260B	8270C Solvents (see List)	6010B Cadmium, Chromium III	7196A Chromium IV	TPH-GRO (H2O) 8021B samples	COMMENTS
10014	7-15-03/1327	Soil	~~6~~ 7	3 VOA 1-4oz PI 3-4oz G	110553	X	X	X	X	X	X	X		*See attached Yellow sheet
12 10014 MS	/1327	Soil	7	↓	↓	X	X	X	X	X	X	X		regarding analyses (10% of
10014 MSD	/1327	Soil	7	↓	↓	X	X	X	X	X	X	X		analyses will be Level III Data
W 11045	/0930	H_2O	9	6-VOA 1-HCl AL 1-250 1-AL	—	X	X	X	~~X~~	~~X~~			X	Packages.
H 10016	/1517	Soil	7	3-VOA 1-4oz 3-4oz GI PI	110554	X	X	X	X	X	X	X		*See attached Blue sheet
10017	/1527	Soil	7	↓	55	X	X	X	X	X	X	X		for solvents. Extract and hold
16 10019	/1613	Soil	7	↓	56	X	X	X	X	X	X	X		PAH + Solvents PAH pending
10020	/1622	Soil	7	↓	57	X	X	X	X	X	X	X		analytical results
W 11020	/1700	H_2O	12	6-VOA 2-HCl AL 2-250mL 2-AL	—	X	X	X	X	X	X	X	X	
18 12017	/0715	Soil	7	3-VOA, 1-4oz PI 3-4oz glass	110555	X	X	X	X	X	X	X		

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-15-03			Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1800	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE: MB	DATE: 7/16/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

FORM P3606P
(3_6/1/2000)

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PENNZOIL-QUAKER STATE COMPANY

Client Code=3217

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CHAIN OF CUSTODY RECORD

Page 3 of 3

88244

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillen	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199499978 838199828340, 838199828307,
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 3

TURNAROUND TIME
☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B	BTEX, MTBE	6010 Lead	8270C SIMS	TPH-GRO/DRO/ ORO/KRO 8015B						COMMENTS
TB-2	Lab	H_2O	2	2-VOA	110544	X										

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-15-03			Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1800	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE: MB	DATE: 7/16/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

8/ 1/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845337.
Laboratory Project Number: 339609.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
TB-3	03-A110101	
10010	03-A110102	7/16/03
10011	03-A110103	7/16/03
10012	03-A110104	7/16/03
10007	03-A110105	7/16/03
10008	03-A110106	7/16/03
10004	03-A110107	7/16/03
10005	03-A110108	7/16/03
10022	03-A110109	7/16/03
10023	03-A110110	7/16/03
10082	03-A110111	7/16/03
10083	03-A110112	7/16/03
10084	03-A110113	7/16/03
10085	03-A110114	7/16/03
10086	03-A110115	7/16/03
10087	03-A110116	7/16/03

TestAmerica
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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L. Norton Report Date: 7/31/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110101
Sample ID: TB-3
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/18/03	13:21	B.Herford	8260B	2044
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/18/03	13:21	B.Herford	8260B	2044
Toluene	0.0009 J	mg/l	0.0010	1	7/18/03	13:21	B.Herford	8260B	2044
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/18/03	13:21	B.Herford	8260B	2044
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/18/03	13:21	B.Herford	8260B	2044

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	124.	70. - 133.
VOA Surr Toluene-d8	107.	76. - 123.
VOA Surr, 4-BFB	103.	71. - 132.
VOA Surr, DBFM	109.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110102
Sample ID: 10010
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 8:30
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	100.	mg/kg	5.86	1	7/25/03	3:13	L. Watson	8015B	9483
TPH (Gasoline Range)	< 5.86	mg/kg	5.86	1	7/29/03	21:45	J. Redmond	8015B	6169
TPH (Diesel Range)	50.9	mg/kg	5.86	1	7/25/03	3:13	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	0.00234J	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Acenaphthylene	0.0143	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Anthracene	0.0140	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	0.0940	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	0.0863	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	0.0816	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	0.0708	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	0.0755	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Chrysene	0.0994	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	0.0256	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Fluoranthene	0.150	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Fluorene	0.00658	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	0.0619	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	0.0205	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Naphthalene	0.00928	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Phenanthrene	0.0379	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
Pyrene	0.132	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443
1-Methylnapthalene	0.0197	mg/kg	0.00387	1	7/23/03	22:21	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110102
Sample ID: 10010
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0012 J	mg/kg	0.0018	1	7/17/03	18:05	J. Adams	8260B	6590
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/17/03	18:05	J. Adams	8260B	6590
Toluene	0.0014 J	mg/kg	0.0018	1	7/17/03	18:05	J. Adams	8260B	6590
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/17/03	18:05	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/17/03	18:05	J. Adams	8260B	6590
METALS									
Lead	29.3	mg/kg	1.17	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.1 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.47 g	5.0 ml	7/16/03	8:30	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	52. #	53. - 123.
VOA Surr 1,2-DCA-d4	102.	58. - 139.
VOA Surr Toluene-d8	86.	71. - 127.
VOA Surr, 4-BFB	87.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110102
Sample ID: 10010
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	70.	44. - 99.
BNA Surr-2-Fluorobiphenyl	61.	45. - 94.
BNA Surr-Terphenyl-d14	58.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
TRPH-d The surrogate recovery was outside of QC ranges low due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110103
Sample ID: 10011
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 8:42
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.20	mg/kg	12.4	1	7/25/03	3:33	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.20	mg/kg	6.20	1	7/29/03	22:22	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.20	mg/kg	6.20	1	7/25/03	3:33	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Anthracene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Chrysene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Fluorene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
Pyrene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00409	mg/kg	0.00409	1	7/23/03	22:54	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110103
Sample ID: 10011
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/17/03	18:36	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/17/03	18:36	J. Adams	8260B	6590
Toluene	0.0015 J	mg/kg	0.0017	1	7/17/03	18:36	J. Adams	8260B	6590
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/17/03	18:36	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/17/03	18:36	J. Adams	8260B	6590
METALS									
Lead	15.1	mg/kg	1.20	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.6	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.9 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.22 g	5.0 ml	7/16/03	8:42	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	91.	53. - 123.
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	85.	71. - 127.
VOA Surr, 4-BFB	88.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110103
Sample ID: 10011
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	95.	67. - 126.
BNA Surr-Nitrobenzene-d5	73.	44. - 99.
BNA Surr-2-Fluorobiphenyl	63.	45. - 94.
BNA Surr-Terphenyl-d14	59.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110104
Sample ID: 10012
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 10:00
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.39	mg/kg	6.39	1	7/25/03	3:52	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.39	mg/kg	6.39	1	7/29/03	22:59	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.39	mg/kg	6.39	1	7/25/03	3:52	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Anthracene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Chrysene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Fluorene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Phenanthrene	0.00345J	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
Pyrene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00421	mg/kg	0.00421	1	7/23/03	23:27	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110104
Sample ID: 10012
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0018	mg/kg	0.0018	1	7/17/03	19:07	J. Adams	8260B	6590
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/17/03	19:07	J. Adams	8260B	6590
Toluene	< 0.0018	mg/kg	0.0018	1	7/17/03	19:07	J. Adams	8260B	6590
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/17/03	19:07	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/17/03	19:07	J. Adams	8260B	6590
METALS									
Lead	14.2	mg/kg	1.25	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.10 g	5.0 ml	7/16/03	10:00	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	68.	65. - 119.
EPH surr-o-Terphenyl	87.	53. - 123.
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	88.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110104
Sample ID: 10012
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	97.	67. - 126.
BNA Surr-Nitrobenzene-d5	66.	44. - 99.
BNA Surr-2-Fluorobiphenyl	58.	45. - 94.
BNA Surr-Terphenyl-d14	60.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110105
Sample ID: 10007
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 11:00
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	21.6	mg/kg	6.15	1	7/25/03	4:12	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.15	mg/kg	6.15	1	7/30/03	10:53	J. Redmond	8015B	6169
TPH (Diesel Range)	20.8	mg/kg	6.15	1	7/25/03	4:12	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Chrysene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Fluorene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Phenanthrene	0.00246J	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
Pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	0:00	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110105
Sample ID: 10007
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.375	mg/kg	0.0937	50	7/18/03	8:52	J. Adams	8260B	564
Ethylbenzene	0.0074	mg/kg	0.0018	1	7/17/03	19:38	J. Adams	8260B	6590
Toluene	0.0081	mg/kg	0.0018	1	7/17/03	19:38	J. Adams	8260B	6590
Xylenes (Total)	0.0098	mg/kg	0.0018	1	7/17/03	19:38	J. Adams	8260B	6590
Methyl-t-butyl ether	0.0015 J	mg/kg	0.0018	1	7/17/03	19:38	J. Adams	8260B	6590
METALS									
Lead	20.3	mg/kg	1.23	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.7 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.56 g	5.0 ml	7/16/03	11:00	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	89.	53. - 123.
VOA Surr 1,2-DCA-d4	89.	58. - 139.
VOA Surr Toluene-d8	92.	71. - 127.
VOA Surr, 4-BFB	94.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110105
Sample ID: 10007
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	90.	67. - 126.
BNA Surr-Nitrobenzene-d5	57.	44. - 99.
BNA Surr-2-Fluorobiphenyl	52.	45. - 94.
BNA Surr-Terphenyl-d14	59.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110106
Sample ID: 10008
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 11:10
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 31.1	mg/kg	31.1	5	7/25/03	4:50	L. Watson	8015B	9483
TPH (Gasoline Range)	67.0	mg/kg	62.3	50	7/30/03	11:30	J. Redmond	8015B	6169
TPH (Diesel Range)	188.	mg/kg	31.1	5	7/25/03	4:50	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	0.0197	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Acenaphthylene	0.00904	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Anthracene	0.00740	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Chrysene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Fluorene	0.0481	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	0.817	mg/kg	0.00822	2	7/27/03	10:45	D. Harris	8270C-SIM	9443
Naphthalene	0.0806	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Phenanthrene	0.0592	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
Pyrene	< 0.00411	mg/kg	0.00411	1	7/24/03	0:34	D. Harris	8270C-SIM	9443
1-Methylnapthalene	0.555	mg/kg	0.00822	2	7/27/03	10:45	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110106
Sample ID: 10008
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.102	mg/kg	0.0017	1	7/18/03	9:23	J. Adams	8260B	6590
Ethylbenzene	0.0166	mg/kg	0.0017	1	7/18/03	9:23	J. Adams	8260B	6590
Toluene	0.0060	mg/kg	0.0017	1	7/18/03	9:23	J. Adams	8260B	6590
Xylenes (Total)	0.0105	mg/kg	0.0017	1	7/18/03	9:23	J. Adams	8260B	6590
Methyl-t-butyl ether	0.0021	mg/kg	0.0017	1	7/18/03	9:23	J. Adams	8260B	6590
METALS									
Lead	19.6	mg/kg	1.25	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.7 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.12 g	5.0 ml	7/16/03	11:10	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	68.	65. - 119.
EPH surr-o-Terphenyl	80.	53. - 123.
VOA Surr 1,2-DCA-d4	109.	58. - 139.
VOA Surr Toluene-d8	302. #	71. - 127.
VOA Surr, 4-BFB	114.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110106
Sample ID: 10008
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	97.	67. - 126.
BNA Surr-Nitrobenzene-d5	118. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	68.	45. - 94.
BNA Surr-Terphenyl-d14	61.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogate(s) outside QC range due to sample matrix.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110107
Sample ID: 10004
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 12:35
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.20	mg/kg	6.20	1	7/25/03	4:56	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.20	mg/kg	6.20	1	7/30/03	0:49	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.20	mg/kg	6.20	1	7/25/03	4:56	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Anthracene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Chrysene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Fluorene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
Pyrene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00409	mg/kg	0.00409	1	7/24/03	1:07	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110107
Sample ID: 10004
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/17/03	20:39	J. Adams	8260B	6590
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/17/03	20:39	J. Adams	8260B	6590
Toluene	0.0014 J	mg/kg	0.0019	1	7/17/03	20:39	J. Adams	8260B	6590
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/17/03	20:39	J. Adams	8260B	6590
Methyl-t-butyl ether	0.0129	mg/kg	0.0019	1	7/17/03	20:39	J. Adams	8260B	6590
METALS									
Lead	15.9	mg/kg	1.24	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.7	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.8 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.87 g	5.0 ml	7/16/03	12:35	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	87.	53. - 123.
VOA Surr 1,2-DCA-d4	101.	58. - 139.
VOA Surr Toluene-d8	90.	71. - 127.
VOA Surr, 4-BFB	92.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110107
Sample ID: 10004
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	93.	67. - 126.
BNA Surr-Nitrobenzene-d5	84.	44. - 99.
BNA Surr-2-Fluorobiphenyl	78.	45. - 94.
BNA Surr-Terphenyl-d14	75.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110108
Sample ID: 10005
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 12:43
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.17	mg/kg	6.17	1	7/25/03	5:09	L. Watson	8015B	9483
TPH (Gasoline Range)	6.40	mg/kg	6.17	1	7/30/03	1:25	J. Redmond	8015B	6169
TPH (Diesel Range)	61.7	mg/kg	6.17	1	7/25/03	5:09	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Anthracene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Chrysene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Fluorene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	0.0264	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Naphthalene	0.0138	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
Pyrene	< 0.00407	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443
1-Methylnapthalene	0.0203	mg/kg	0.00407	1	7/24/03	1:40	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110108
Sample ID: 10005
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0030	mg/kg	0.0016	1	7/17/03	21:10	J. Adams	8260B	6590
Ethylbenzene	< 0.0016	mg/kg	0.0016	1	7/17/03	21:10	J. Adams	8260B	6590
Toluene	0.0012 J	mg/kg	0.0016	1	7/17/03	21:10	J. Adams	8260B	6590
Xylenes (Total)	0.0021	mg/kg	0.0016	1	7/17/03	21:10	J. Adams	8260B	6590
Methyl-t-butyl ether	0.0192	mg/kg	0.0016	1	7/17/03	21:10	J. Adams	8260B	6590
METALS									
Lead	15.9	mg/kg	1.10	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.1	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.4 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.50 g	5.0 ml	7/16/03	12:43	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	55.	53. - 123.
VOA Surr 1,2-DCA-d4	94.	58. - 139.
VOA Surr Toluene-d8	103.	71. - 127.
VOA Surr, 4-BFB	93.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110108
Sample ID: 10005
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	96.	67. - 126.
BNA Surr-Nitrobenzene-d5	92.	44. - 99.
BNA Surr-2-Fluorobiphenyl	64.	45. - 94.
BNA Surr-Terphenyl-d14	67.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110109
Sample ID: 10022
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 13:38
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	22.6	mg/kg	5.86	1	7/25/03	5:29	L. Watson	8015B	9483
TPH (Gasoline Range)	< 5.86	mg/kg	5.86	1	7/30/03	2:02	J. Redmond	8015B	6169
TPH (Diesel Range)	11.5	mg/kg	5.86	1	7/25/03	5:29	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Acenaphthylene	0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Anthracene	0.00812	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	0.00619	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	0.0247	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	0.0182	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	0.0274	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	0.00928	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Chrysene	0.00812	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	0.0120	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Fluoranthene	0.0112	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Fluorene	< 0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	0.0213	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Phenanthrene	0.00735	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
Pyrene	0.00851	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00387	mg/kg	0.00387	1	7/24/03	2:13	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110109
Sample ID: 10022
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0027	mg/kg	0.0015	1	7/17/03	21:40	J. Adams	8260B	6590
Ethylbenzene	< 0.0015	mg/kg	0.0015	1	7/17/03	21:40	J. Adams	8260B	6590
Toluene	< 0.0015	mg/kg	0.0015	1	7/17/03	21:40	J. Adams	8260B	6590
Xylenes (Total)	< 0.0015	mg/kg	0.0015	1	7/17/03	21:40	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0015	mg/kg	0.0015	1	7/17/03	21:40	J. Adams	8260B	6590
METALS									
Lead	15.4	mg/kg	1.13	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.9 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.62 g	5.0 ml	7/16/03	13:38	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	68.	65. - 119.
EPH surr-o-Terphenyl	68.	53. - 123.
VOA Surr 1,2-DCA-d4	98.	58. - 139.
VOA Surr Toluene-d8	86.	71. - 127.
VOA Surr, 4-BFB	91.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110109
Sample ID: 10022
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	97.	67. - 126.
BNA Surr-Nitrobenzene-d5	65.	44. - 99.
BNA Surr-2-Fluorobiphenyl	61.	45. - 94.
BNA Surr-Terphenyl-d14	60.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110110
Sample ID: 10023
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 13:48
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.00	mg/kg	6.00	1	7/25/03	5:49	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.00	mg/kg	6.00	1	7/30/03	2:38	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.00	mg/kg	6.00	1	7/25/03	5:49	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Chrysene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Fluorene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
Pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	2:47	D. Harris	8270C-SIM	9443

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ANALYTICAL REPORT

Laboratory Number: 03-A110110
Sample ID: 10023
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0016	mg/kg	0.0016	1	7/17/03	22:11	J. Adams	8260B	6590
Ethylbenzene	< 0.0016	mg/kg	0.0016	1	7/17/03	22:11	J. Adams	8260B	6590
Toluene	0.0008 J	mg/kg	0.0016	1	7/17/03	22:11	J. Adams	8260B	6590
Xylenes (Total)	< 0.0016	mg/kg	0.0016	1	7/17/03	22:11	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0016	mg/kg	0.0016	1	7/17/03	22:11	J. Adams	8260B	6590
METALS									
Lead	17.2	mg/kg	1.15	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.6 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.51 g	5.0 ml	7/16/03	13:48	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
EPH surr-o-Terphenyl	75.	53. - 123.
VOA Surr 1,2-DCA-d4	99.	58. - 139.
VOA Surr Toluene-d8	88.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110110
Sample ID: 10023
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	77.	44. - 99.
BNA Surr-2-Fluorobiphenyl	62.	45. - 94.
BNA Surr-Terphenyl-d14	59.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110111
Sample ID: 10082
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 14:35
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH GRO (C24-C40)	< 6.15	mg/kg	6.15	1	7/25/03	6:08	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.15	mg/kg	6.15	1	7/30/03	3:15	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.15	mg/kg	6.15	1	7/25/03	6:08	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Chrysene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Fluorene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
Pyrene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00406	mg/kg	0.00406	1	7/24/03	3:20	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110111
Sample ID: 10082
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0219	mg/kg	0.0017	1	7/17/03	22:42	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/17/03	22:42	J. Adams	8260B	6590
Toluene	0.0012 J	mg/kg	0.0017	1	7/17/03	22:42	J. Adams	8260B	6590
Xylenes (Total)	0.0042	mg/kg	0.0017	1	7/17/03	22:42	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/17/03	22:42	J. Adams	8260B	6590
METALS									
Lead	16.0	mg/kg	1.23	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.5 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.07 g	5.0 ml	7/16/03	14:35	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	82.	53. - 123.
VOA Surr 1,2-DCA-d4	97.	58. - 139.
VOA Surr Toluene-d8	88.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110111
Sample ID: 10082
Project: 845337
Page 3

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	96.	67. - 126.
BNA Surr-Nitrobenzene-d5	57.	44. - 99.
BNA Surr-2-Fluorobiphenyl	51.	45. - 94.
BNA Surr-Terphenyl-d14	56.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110112
Sample ID: 10083
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 14:49
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.14	mg/kg	6.14	1	7/25/03	6:27	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.14	mg/kg	6.14	1	7/30/03	5:04	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.14	mg/kg	6.14	1	7/25/03	6:27	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Anthracene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Chrysene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Fluorene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
Pyrene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00405	mg/kg	0.00405	1	7/24/03	4:59	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110112
Sample ID: 10083
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/17/03	23:13	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/17/03	23:13	J. Adams	8260B	6590
Toluene	0.0012 J	mg/kg	0.0017	1	7/17/03	23:13	J. Adams	8260B	6590
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/17/03	23:13	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/17/03	23:13	J. Adams	8260B	6590
METALS									
Lead	16.0	mg/kg	1.17	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.4	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.5 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.97 g	5.0 ml	7/16/03	14:49	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	80.	53. - 123.
VOA Surr 1,2-DCA-d4	97.	58. - 139.
VOA Surr Toluene-d8	88.	71. - 127.
VOA Surr, 4-BFB	89.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110112
Sample ID: 10083
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	96.	67. - 126.
BNA Surr-Nitrobenzene-d5	69.	44. - 99.
BNA Surr-2-Fluorobiphenyl	66.	45. - 94.
BNA Surr-Terphenyl-d14	57.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110113
Sample ID: 10084
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 15:03
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.09	mg/kg	6.09	1	7/25/03	6:47	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.09	mg/kg	6.09	1	7/30/03	5:41	J. Redmond	8015B	6169
TPH (Diesel Range)	< 6.09	mg/kg	6.09	1	7/25/03	6:47	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Anthracene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Chrysene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Fluorene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
Pyrene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00402	mg/kg	0.00402	1	7/24/03	5:32	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110113
Sample ID: 10084
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/17/03	23:43	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/17/03	23:43	J. Adams	8260B	6590
Toluene	0.0009 J	mg/kg	0.0017	1	7/17/03	23:43	J. Adams	8260B	6590
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/17/03	23:43	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/17/03	23:43	J. Adams	8260B	6590
METALS									
Lead	14.4	mg/kg	1.21	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.1	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.6 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.12 g	5.0 ml	7/16/03	15:03	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
EPH surr-o-Terphenyl	90.	53. - 123.
VOA Surr 1,2-DCA-d4	98.	58. - 139.
VOA Surr Toluene-d8	87.	71. - 127.
VOA Surr, 4-BFB	91.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110113
Sample ID: 10084
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr. DBFM	96.	67. - 126.
BNA Surr-Nitrobenzene-d5	65.	44. - 99.
BNA Surr-2-Fluorobiphenyl	60.	45. - 94.
BNA Surr-Terphenyl-d14	56.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110114
Sample ID: 10085
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 16:00
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	24.7	mg/kg	6.50	1	7/25/03	7:06	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.50	mg/kg	6.50	1	7/30/03	6:17	J. Redmond	8015B	6169
TPH (Diesel Range)	54.9	mg/kg	6.50	1	7/25/03	7:06	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Anthracene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Chrysene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Fluorene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
Pyrene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00429	mg/kg	0.00429	1	7/24/03	6:05	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110114
Sample ID: 10085
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0016 J	mg/kg	0.0020	1	7/18/03	0:14	J. Adams	8260B	6590
Ethylbenzene	< 0.0020	mg/kg	0.0020	1	7/18/03	0:14	J. Adams	8260B	6590
Toluene	0.0023	mg/kg	0.0020	1	7/18/03	0:14	J. Adams	8260B	6590
Xylenes (Total)	< 0.0020	mg/kg	0.0020	1	7/18/03	0:14	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0020	mg/kg	0.0020	1	7/18/03	0:14	J. Adams	8260B	6590
METALS									
Lead	33.9	mg/kg	1.26	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.9	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	24.9 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.80 g	5.0 ml	7/16/03	16:00	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	66.	65. - 119.
EPH surr-o-Terphenyl	45. #	53. - 123.
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	90.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110114
Sample ID: 10085
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	59.	44. - 99.
BNA Surr-2-Fluorobiphenyl	61.	45. - 94.
BNA Surr-Terphenyl-d14	63.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
TRPH-d The surrogate recovery was outside of QC ranges low
due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110115
Sample ID: 10086
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 16:13
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 30.9	mg/kg	6.19	5	7/25/03	5:11	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.19	mg/kg	6.19	1	7/30/03	6:54	J. Redmond	8015B	6169
TPH (Diesel Range)	134.	mg/kg	30.9	5	7/25/03	5:11	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Anthracene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Chrysene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Fluorene	0.0106	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
Pyrene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00408	mg/kg	0.00408	1	7/24/03	6:38	D. Harris	8270C-SIM	9443

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110115
Sample ID: 10086
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/18/03	0:45	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/18/03	0:45	J. Adams	8260B	6590
Toluene	0.0009 J	mg/kg	0.0017	1	7/18/03	0:45	J. Adams	8260B	6590
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/18/03	0:45	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/18/03	0:45	J. Adams	8260B	6590
METALS									
Lead	14.6	mg/kg	1.24	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.8	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	6.98 g	5.0 ml	7/16/03	16:13	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	69.	65. - 119.
EPH surr-o-Terphenyl	70.	53. - 123.
VOA Surr 1,2-DCA-d4	100.	58. - 139.
VOA Surr Toluene-d8	87.	71. - 127.
VOA Surr, 4-BFB	89.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110115
Sample ID: 10086
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	58.	44. - 99.
BNA Surr-2-Fluorobiphenyl	61.	45. - 94.
BNA Surr-Terphenyl-d14	61.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A110116
Sample ID: 10087
Sample Type: Soil
Site ID:

Date Collected: 7/16/03
Time Collected: 16:39
Date Received: 7/17/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.00	mg/kg	6.00	1	7/25/03	7:45	L. Watson	8015B	9483
TPH (Gasoline Range)	< 6.00	mg/kg	6.00	1	7/30/03	8:44	J. Redmond	8015B	6169
TPH (Diesel Range)	12.0	mg/kg	6.00	1	7/25/03	7:45	L. Watson	8015B	9483
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Acenaphthylene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Benzo(a)anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Benzo(a)pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Benzo(b)fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Benzo(g,h,i)perylene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Benzo(k)fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Chrysene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Dibenz(a,h)anthracene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Fluoranthene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Fluorene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Indeno(1,2,3-cd)pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
2-Methylnaphthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Naphthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Phenanthrene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
Pyrene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443
1-Methylnapthalene	< 0.00396	mg/kg	0.00396	1	7/24/03	7:11	D. Harris	8270C-SIM	9443

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 03-A110116
Sample ID: 10087
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/18/03	1:15	J. Adams	8260B	6590
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/18/03	1:15	J. Adams	8260B	6590
Toluene	0.0008 J	mg/kg	0.0017	1	7/18/03	1:15	J. Adams	8260B	6590
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/18/03	1:15	J. Adams	8260B	6590
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/18/03	1:15	J. Adams	8260B	6590
METALS									
Lead	11.6	mg/kg	1.15	1	7/22/03	12:36	C.Johnson	6010B	6166
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.3	%			7/17/03	16:00	M. Ricke	CLP	6171

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/19/03		M. Ricke	3550
Volatile Organics	7.09 g	5.0 ml	7/16/03	16:39	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	68.	65. - 119.
EPH surr-o-Terphenyl	67.	53. - 123.
VOA Surr 1,2-DCA-d4	97.	58. - 139.
VOA Surr Toluene-d8	90.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A110116
Sample ID: 10087
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	69.	44. - 99.
BNA Surr-2-Fluorobiphenyl	62.	45. - 94.
BNA Surr-Terphenyl-d14	61.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
TRPH-d The MS/MSD recoveries could not be determined due to the sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 7/17/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Gasoline Range)	mg/kg	< 5.00	7.10	10.0	71	70. - 134.	6169	03-A110103
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0524	0.0500	105	68 - 136	2044	BLANK
Benzene	mg/kg	< 0.0003	0.0378	0.0500	76	53 - 140	6590	blank
Toluene	mg/l	< 0.0006	0.0547	0.0500	109	73 - 133	2044	BLANK
Toluene	mg/kg	< 0.0008	0.0345	0.0500	69	47 - 142	6590	blank
VOA Surr 1,2-DCA-d4	% Rec				91	58 - 139	6590	
VOA Surr Toluene-d8	% Rec				89	71 - 127	6590	
VOA Surr, 4-BFB	% Rec				92	60 - 141	6590	
VOA Surr, DBFM	% Rec				92	67 - 126	6590	
METALS								
Lead	mg/kg	14.3	199.	200.	92	80 - 120	6166	03-A110110

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	7.10	6.81	4.17	24.	6169

Project QC continued . . .

TestAmerica
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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 7/17/03

VOA PARAMETERS						
Benzene	mg/l	0.0524	0.0526	0.38	22.	2044
Benzene	mg/kg	0.0378	0.0468	21.28	34.	6590
Toluene	mg/l	0.0547	0.0557	1.81	22.	2044
Toluene	mg/kg	0.0345	0.0469	30.47	39.	6590
VOA Surr 1,2-DCA-d4	% Rec		113.			2044
VOA Surr 1,2-DCA-d4	% Rec		92.			6590
VOA Surr Toluene-d8	% Rec		106.			2044
VOA Surr Toluene-d8	% Rec		89.			6590
VOA Surr, 4-BFB	% Rec		97.			2044
VOA Surr, 4-BFB	% Rec		91.			6590
VOA Surr, DBFM	% Rec		104.			2044
VOA Surr, DBFM	% Rec		95.			6590
BNA Surr-Nitrobenzene-d5	% Rec		61.			9443
BNA Surr-2-Fluorobiphenyl	% Rec		59.			9443
BNA Surr-Terphenyl-d14	% Rec		59.			9443

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	10.0	9.09	91	80 - 127	6169
TPH (Diesel Range)	mg/kg	40.0	30.2	76	50 - 125	9483
UST PARAMETERS						
TRPH GRO (C24-C40)	mg/kg	40.0	30.2	76	30 - 125	9483
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0566	113	78 - 125	2044
Benzene	mg/kg	0.0500	0.0609	122	75 - 127	6590
Benzene	mg/kg	0.0500	0.0489	98	75 - 127	564
Ethylbenzene	mg/l	0.0500	0.0600	120	79 - 125	2044
Ethylbenzene	mg/kg	0.0500	0.0576	115	69 - 128	6590
Toluene	mg/l	0.0500	0.0591	118	79 - 125	2044

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 3
Laboratory Receipt Date: 7/17/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/kg	0.0500	0.0545	109	72 - 128	6590
Xylenes (Total)	mg/l	0.150	0.182	121	78 - 127	2044
Xylenes (Total)	mg/kg	0.150	0.173	115	69 - 126	6590
Methyl-t-butyl ether	mg/l	0.0500	0.0595	119	71 - 135	2044
Methyl-t-butyl ether	mg/kg	0.0500	0.0637	127	58 - 142	6590
VOA Surr 1,2-DCA-d4	% Rec			117	70 - 133	2044
VOA Surr 1,2-DCA-d4	% Rec			100	58 - 139	6590
VOA Surr 1,2-DCA-d4	% Rec			89	58 - 139	564
VOA Surr Toluene-d8	% Rec			105	76 - 123	2044
VOA Surr Toluene-d8	% Rec			91	71 - 127	6590
VOA Surr Toluene-d8	% Rec			90	71 - 127	564
VOA Surr, 4-BFB	% Rec			97	71 - 132	2044
VOA Surr, 4-BFB	% Rec			89	60 - 141	6590
VOA Surr, 4-BFB	% Rec			90	60 - 141	564
VOA Surr, DBFM	% Rec			106	74 - 128	2044
VOA Surr, DBFM	% Rec			104	67 - 126	6590
VOA Surr, DBFM	% Rec			91	67 - 126	564
METALS						
Lead	mg/kg	200.	202.	101	80 - 120	6166

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/kg	14.3	12.8	11.07	15.	6166	03-A110110

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 4
Laboratory Receipt Date: 7/17/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	9483	7/25/03	1:54
TPH (Gasoline Range)	< 5.00	mg/kg	6169	7/29/03	21:09
TPH (Diesel Range)	< 10.0	mg/kg	9483	7/25/03	1:54
UST surr-Trifluorotoluene	67.	% Recovery	6169	7/29/03	21:09
EPH surr-o-Terphenyl	90.	% Recovery	9483	7/25/03	1:54
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	2044	7/18/03	12:47
Benzene	< 0.0003	mg/kg	6590	7/17/03	16:33
Benzene	< 0.0003	mg/kg	564	7/18/03	4:49
Ethylbenzene	< 0.0003	mg/l	2044	7/18/03	12:47
Ethylbenzene	< 0.0005	mg/kg	6590	7/17/03	16:33
Toluene	< 0.0006	mg/l	2044	7/18/03	12:47
Toluene	< 0.0008	mg/kg	6590	7/17/03	16:33
Xylenes (Total)	< 0.0009	mg/l	2044	7/18/03	12:47
Xylenes (Total)	< 0.0013	mg/kg	6590	7/17/03	16:33
Methyl-t-butyl ether	< 0.0005	mg/l	2044	7/18/03	12:47
Methyl-t-butyl ether	< 0.0006	mg/kg	6590	7/17/03	16:33
VOA Surr 1,2-DCA-d4	118.	% Rec	2044	7/18/03	12:47
VOA Surr 1,2-DCA-d4	101.	% Rec	6590	7/17/03	16:33
VOA Surr 1,2-DCA-d4	101.	% Rec	564	7/18/03	4:49
VOA Surr Toluene-d8	103.	% Rec	2044	7/18/03	12:47
VOA Surr Toluene-d8	87.	% Rec	6590	7/17/03	16:33
VOA Surr Toluene-d8	86.	% Rec	564	7/18/03	4:49
VOA Surr, 4-BFB	98.	% Rec	2044	7/18/03	12:47
VOA Surr, 4-BFB	88.	% Rec	6590	7/17/03	16:33
VOA Surr, 4-BFB	89.	% Rec	564	7/18/03	4:49
VOA Surr, DBFM	104.	% Rec	2044	7/18/03	12:47

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 5
Laboratory Receipt Date: 7/17/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, DBFM	95.	% Rec	6590	7/17/03	16:33
VOA Surr, DBFM	96.	% Rec	564	7/18/03	4:49
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00330	mg/kg	9443	7/23/03	20:08
Acenaphthylene	< 0.00330	mg/kg	9443	7/23/03	20:08
Anthracene	< 0.00330	mg/kg	9443	7/23/03	20:08
Benzo(a)anthracene	< 0.00330	mg/kg	9443	7/23/03	20:08
Benzo(a)pyrene	< 0.00330	mg/kg	9443	7/23/03	20:08
Benzo(b)fluoranthene	< 0.00330	mg/kg	9443	7/23/03	20:08
Benzo(g,h,i)perylene	< 0.00330	mg/kg	9443	7/23/03	20:08
Benzo(k)fluoranthene	< 0.00330	mg/kg	9443	7/23/03	20:08
Chrysene	< 0.00330	mg/kg	9443	7/23/03	20:08
Dibenz(a,h)anthracene	< 0.00330	mg/kg	9443	7/23/03	20:08
Fluoranthene	< 0.00330	mg/kg	9443	7/23/03	20:08
Fluorene	< 0.00330	mg/kg	9443	7/23/03	20:08
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	9443	7/23/03	20:08
2-Methylnaphthalene	< 0.00330	mg/kg	9443	7/23/03	20:08
Naphthalene	< 0.00330	mg/kg	9443	7/23/03	20:08
Phenanthrene	< 0.00330	mg/kg	9443	7/23/03	20:08
Pyrene	< 0.00330	mg/kg	9443	7/23/03	20:08
1-Methylnapthalene	< 0.00330	mg/kg	9443	7/23/03	20:08
BNA Surr-Nitrobenzene-d5	59.	% Rec	9443	7/23/03	20:08
BNA Surr-2-Fluorobiphenyl	64.	% Rec	9443	7/23/03	20:08
BNA Surr-Terphenyl-d14	59.	% Rec	9443	7/23/03	20:08
METALS					
Lead	< 0.52	mg/kg	6166	7/22/03	12:36

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 6
Laboratory Receipt Date: 7/17/03

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339609

339609

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT DOROTHY ROBERTS AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM BC# 339609

Client: Pennzoil - Quaker State

Cooler Received On: 7/17/03 And Opened On: 7/17/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 0.0 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2, Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA (water, soil)
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

FORM P38
(3_6/1/2000)

339609

PENNZOIL-QUAKER STATE COMPANY

Client Code: 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 2 88228

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan Mc Quillen	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS# 5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828362, 838199849956
FAX NUMBER: 713-546-8507	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 2

TURNAROUND TIME
☑ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B	BTEX, MTBE	6010 Lead	8270C SIMS	TPH-GRO/DRO KRO/ORO 8015B					COMMENTS
10010	7-16-03/0830	Soil	6	3-VOA 1-4oz 2-4oz-GJ	110102	X	X	X	X						* See Attached Yellow
10011	/0842	Soil	6		3	X	X	X	X						Sheet regarding analyses
10012	/1000	Soil	6		4	X	X	X	X						(10% of analyses will be
10007	/1100	Soil	6		5	X	X	X	X						Level III Data Packages)
10008	/1110	Soil	6		6	X	X	X	X						
10004	/1235	Soil	6		7	X	X	X	X						
10005	/1243	Soil	6		8	X	X	X	X						
10022	/1338	Soil	6		9	X	X	X	X						
10023	/1348	Soil	6		10	X	X	X	X						
10082	/1435	Soil	6		10111	X	X	X	X						

(1) RELINQUISHED BY SIGNATURE: Kirk E. Curry	DATE: 7-16-03	(2) RELINQUISHED BY SIGNATURE:	DATE:	SAMPLER'S NAME: Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1745	COMPANY:	TIME:	REMARKS:
(1) RECEIVED BY SIGNATURE:	DATE:	(2) RECEIVED BY SIGNATURE:	DATE: 7/17/03	
COMPANY:	TIME:	COMPANY: TA	TIME: 0810	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

FORM P36
(3_6/1/200L

339609

PENNZOIL- QUAKER STATE
COMPANY

Client Code = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 2 of 2 88227

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828362, 838199849956
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 2

TURNAROUND TIME
☑ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B	BTEX, MTBE	6010 Lead	8270C SIMS	TPH-GRO/DRO/KRO/ORO 8015B					COMMENTS
10083	7-16-03/1449	Soil	6	3-VOA, 1-4oz gl. 2-4oz GL	101112	X	X	X	X						*See attached Yellow she
10084	/1503	Soil	6		3	X	X	X	X						regarding analyses (10 %
10085	/1600	Soil	6		4	X	X	X	X						of analyses will be Level
10086	/1613	Soil	6		5	X	X	X	X						Data Packages.)
10087	/1639	Soil	6		101116	X	X	X	X						
TB-3	Lab	Lab	2	2-VOA	110101	X									

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-16-03			Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1745	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE	(2) RECEIVED BY SIGNATURE	DATE: 7/17/03	
COMPANY	TIME	COMPANY: TA	TIME: 0810	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 7/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845337.
Laboratory Project Number: 339794.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
TB-4	03-A111005	7/17/03
11003	03-A111006	7/17/03
10009	03-A111007	7/17/03
10001	03-A111008	7/17/03
10002	03-A111009	7/17/03
10003	03-A111010	7/17/03
10025	03-A111011	7/17/03
10026	03-A111012	7/17/03
10076	03-A111013	7/17/03
10077	03-A111014	7/17/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glenn L. Norton Report Date: 8/ 5/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111005
Sample ID: TB-4
Sample Type: Ground water
Site ID:

Date Collected: 7/17/03
Time Collected: 9:36
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/18/03	17:01	S. Davis	8260B	8115
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/18/03	17:01	S. Davis	8260B	8115
Toluene	< 0.0010	mg/l	0.0010	1	7/18/03	17:01	S. Davis	8260B	8115
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/18/03	17:01	S. Davis	8260B	8115
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/18/03	17:01	S. Davis	8260B	8115

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	113.	70. - 133.
VOA Surr Toluene-d8	95.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	111.	74. - 128.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111006
Sample ID: 11003
Sample Type: Ground water
Site ID:

Date Collected: 7/17/03
Time Collected: 12:20
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	7/20/03	13:10	L. Watson	8015B/3510	8807
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	7/28/03	1:17	D.Ramey	8015B	7378
TPH (Diesel Range)	0.117	mg/l	0.100	1	7/20/03	13:10	L. Watson	8015B/3510	8807
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Acenaphthylene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Anthracene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Benzo(a)anthracene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Benzo(a)pyrene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Benzo(b)fluoranthene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Benzo(g,h,i)perylene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Benzo(k)fluoranthene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Chrysene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Dibenz(a,h)anthracene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Fluoranthene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Fluorene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
2-Methylnaphthalene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Naphthalene	0.00026	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Phenanthrene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
Pyrene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
1-Methylnaphthalene	< 0.00010	mg/l	0.00010	1	7/22/03	1:12	D. Harris	8270C-SIM	9446
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/l	0.0020	1	7/23/03	23:50	C.Reinbold	8260B	7396

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111006
Sample ID: 11003
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Ethylbenzene	< 0.0020	mg/l	0.0020	1	7/23/03	23:50	C.Reinbold	8260B	7396
Toluene	0.0011 J	mg/l	0.0020	1	7/23/03	23:50	C.Reinbold	8260B	7396
Xylenes (Total)	< 0.0020	mg/l	0.0020	1	7/23/03	23:50	C.Reinbold	8260B	7396
Methyl-t-butyl ether	< 0.0020	mg/l	0.0020	1	7/23/03	23:50	C.Reinbold	8260B	7396
METALS									
Lead	< 0.0030	mg/l	0.0030	1	7/24/03	11:28	C.Johnson	6010B	506
MISCELLANEOUS CHEMISTRY									
pH	7				7/19/03	10:20	S. Self	9040/150.1	7369

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	7/20/03		M. Ricke	3510C
EPH	1000 ml	1.00 ml	7/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	68.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.
VOA Surr 1,2-DCA-d4	113.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	89.	71. - 132.
VOA Surr, DBFM	111.	74. - 128.
BNA Surr-Nitrobenzene-d5	127. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	75.	40. - 96.
BNA Surr-Terphenyl-d14	79.	26. - 106.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111006
Sample ID: 11003
Project: 845337

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111007
Sample ID: 10009
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 9:36
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	27.1	mg/kg	6.49	1	7/22/03	2:40	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 6.49	mg/kg	6.49	1	7/27/03	11:20	J. Redmond	8015B	7393
TPH (Diesel Range)	< 6.49	mg/kg	6.49	1	7/22/03	2:40	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Anthracene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Chrysene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Fluorene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Naphthalene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Phenanthrene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
Pyrene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444
1-Methylnapthalene	< 0.00429	mg/kg	0.00429	1	7/22/03	4:31	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111007
Sample ID: 10009
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/23/03	12:42	J. Adams	8260B	8083
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/23/03	12:42	J. Adams	8260B	8083
Toluene	< 0.0019	mg/kg	0.0019	1	7/23/03	12:42	J. Adams	8260B	8083
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/23/03	12:42	J. Adams	8260B	8083
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/23/03	12:42	J. Adams	8260B	8083
METALS									
Lead	14.2	mg/kg	1.29	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.0	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.5 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	6.76 g	5.0 ml	7/17/03	9:36	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	99.	53. - 123.
VOA Surr 1,2-DCA-d4	109.	58. - 139.
VOA Surr Toluene-d8	82.	71. - 127.
VOA Surr, 4-BFB	84.	60. - 141.

ample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111007
Sample ID: 10009
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	111.	67. - 126.
BNA Surr-Nitrobenzene-d5	114. ∅	44. - 99.
BNA Surr-2-Fluorobiphenyl	77.	45. - 94.
BNA Surr-Terphenyl-d14	78.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
∅ - Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111008
Sample ID: 10001
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 11:10
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	339.	mg/kg	57.8	10	7/22/03	3:00	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 5.78	mg/kg	5.78	1	7/27/03	11:57	J. Redmond	8015B	7393
TPH (Diesel Range)	331.	mg/kg	57.8	10	7/22/03	3:00	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	0.0138	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Acenaphthylene	0.0275	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Anthracene	0.0259	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	0.0496	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	0.0629	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	0.0645	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	0.0897	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	0.0645	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Chrysene	0.0622	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	0.0259	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Fluoranthene	0.0969	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Fluorene	0.0225	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	0.0595	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	0.294	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Naphthalene	0.0919	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Phenanthrene	0.0640	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
Pyrene	0.0793	mg/kg	0.00382	1	7/22/03	8:22	D. Harris	8270C-SIM	9444
1-Methylnapthalene	0.376	mg/kg	0.00763	2	7/22/03	13:00	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111008
Sample ID: 10001
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/23/03	13:12	J. Adams	8260B	8083
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/23/03	13:12	J. Adams	8260B	8083
Toluene	< 0.0017	mg/kg	0.0017	1	7/23/03	13:12	J. Adams	8260B	8083
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/23/03	13:12	J. Adams	8260B	8083
Methyl-t-butyl ether	0.0427	mg/kg	0.0017	1	7/23/03	13:12	J. Adams	8260B	8083
METALS									
Lead	58.3	mg/kg	1.12	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	86.5	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	6.77 g	5.0 ml	7/17/03	11:10	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	65.	65. - 119.
VOA Surr 1,2-DCA-d4	110.	58. - 139.
VOA Surr Toluene-d8	83.	71. - 127.
VOA Surr, 4-BFB	85.	60. - 141.
VOA Surr, DBFM	111.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111008
Sample ID: 10001
Project: 845337

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	151. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	81.	45. - 94.
BNA Surr-Terphenyl-d14	80.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.
Trph-d surrogate recovery diluted out due to sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111009
Sample ID: 10002
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 11:20
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.12	mg/kg	6.12	1	7/22/03	3:21	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 6.12	mg/kg	6.12	1	7/27/03	12:33	J. Redmond	8015B	7393
TPH (Diesel Range)	6.46	mg/kg	6.12	1	7/22/03	3:21	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Anthracene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Chrysene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Fluorene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Naphthalene	0.00969	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Phenanthrene	0.00367J	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
Pyrene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444
1-Methylnapthalene	< 0.00404	mg/kg	0.00404	1	7/22/03	5:03	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111009
Sample ID: 10002
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0366	mg/kg	0.0017	1	7/23/03	13:43	J. Adams	8260B	8083
Ethylbenzene	0.0077	mg/kg	0.0017	1	7/23/03	13:43	J. Adams	8260B	8083
Toluene	0.0013 J	mg/kg	0.0017	1	7/23/03	13:43	J. Adams	8260B	8083
Xylenes (Total)	0.0386	mg/kg	0.0017	1	7/23/03	13:43	J. Adams	8260B	8083
Methyl-t-butyl ether	0.0023	mg/kg	0.0017	1	7/23/03	13:43	J. Adams	8260B	8083
METALS									
Lead	13.1	mg/kg	1.20	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.7	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	7.10 g	5.0 ml	7/17/03	11:20	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	68.	65. - 119.
EPH surr-o-Terphenyl	90.	53. - 123.
VOA Surr 1,2-DCA-d4	103.	58. - 139.
VOA Surr Toluene-d8	83.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111009
Sample ID: 10002
Project: 845337
Page 3

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	108.	67. - 126.
BNA Surr-Nitrobenzene-d5	86.	44. - 99.
BNA Surr-2-Fluorobiphenyl	68.	45. - 94.
BNA Surr-Terphenyl-d14	72.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111010
Sample ID: 10003
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 11:51
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.10	mg/kg	6.10	1	7/22/03	3:41	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 6.10	mg/kg	6.10	1	7/27/03	13:10	J. Redmond	8015B	7393
TPH (Diesel Range)	< 6.10	mg/kg	6.10	1	7/22/03	3:41	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Anthracene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Chrysene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Fluorene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Naphthalene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Phenanthrene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
Pyrene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444
1-Methylnapthalene	< 0.00402	mg/kg	0.00402	1	7/22/03	5:37	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111010
Sample ID: 10003
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0018	mg/kg	0.0018	1	7/23/03	14:14	J. Adams	8260B	8083
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/23/03	14:14	J. Adams	8260B	8083
Toluene	< 0.0018	mg/kg	0.0018	1	7/23/03	14:14	J. Adams	8260B	8083
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/23/03	14:14	J. Adams	8260B	8083
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/23/03	14:14	J. Adams	8260B	8083
METALS									
Lead	10.6	mg/kg	1.18	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.0	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	6.69 g	5.0 ml	7/17/03	11:51	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	69.	65. - 119.
EPH surr-o-Terphenyl	93.	53. - 123.
VOA Surr 1,2-DCA-d4	110.	58. - 139.
VOA Surr Toluene-d8	83.	71. - 127.
VOA Surr, 4-BFB	88.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111010
Sample ID: 10003
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	107.	67. - 126.
BNA Surr-Nitrobenzene-d5	133. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	88.	45. - 94.
BNA Surr-Terphenyl-d14	82.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111011
Sample ID: 10025
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 14:15
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 12.4	mg/kg	12.4	2	7/22/03	9:15	M.Jarrett	8015B	9490
TPH (Gasoline Range)	144.	mg/kg	61.9	50	7/30/03	12:06	J. Redmond	8015B	7319
TPH (Diesel Range)	129.	mg/kg	12.4	2	7/22/03	9:15	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	0.0233	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Anthracene	0.0123	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Chrysene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Fluorene	0.0428	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	0.00899	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Naphthalene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Phenanthrene	0.0731	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
Pyrene	0.00899	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444
1-Methylnapthalene	0.236	mg/kg	0.00408	1	7/22/03	6:10	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111011
Sample ID: 10025
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0007 J	mg/kg	0.0016	1	7/23/03	14:45	J. Adams	8260B	8083
Ethylbenzene	0.0009 J	mg/kg	0.0016	1	7/23/03	14:45	J. Adams	8260B	8083
Toluene	0.0009 J	mg/kg	0.0016	1	7/23/03	14:45	J. Adams	8260B	8083
Xylenes (Total)	0.0040	mg/kg	0.0016	1	7/23/03	14:45	J. Adams	8260B	8083
Methyl-t-butyl ether	0.0011 J	mg/kg	0.0016	1	7/23/03	14:45	J. Adams	8260B	8083
METALS									
Lead	15.6	mg/kg	1.18	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.8	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	7.54 g	5.0 ml	7/17/03	14:15	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	69.	65. - 119.
EPH surr-o-Terphenyl	88.	53. - 123.
VOA Surr 1,2-DCA-d4	110.	58. - 139.
VOA Surr Toluene-d8	113.	71. - 127.
VOA Surr, 4-BFB	523. #	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111011
Sample ID: 10025
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	111.	67. - 126.
BNA Surr-Nitrobenzene-d5	94.	44. - 99.
BNA Surr-2-Fluorobiphenyl	83.	45. - 94.
BNA Surr-Terphenyl-d14	85.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogate(s) outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111012
Sample ID: 10026
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 14:25
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 12.4	mg/kg	12.4	2	7/22/03	9:36	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 6.19	mg/kg	6.19	1	7/27/03	14:23	J. Redmond	8015B	7393
TPH (Diesel Range)	95.4	mg/kg	12.4	2	7/22/03	9:36	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	0.00858	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Anthracene	0.00653	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Chrysene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Fluorene	0.0151	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	0.00899	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Naphthalene	< 0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Phenanthrene	0.0241	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
Pyrene	0.00408	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444
1-Methylnapthalene	0.0666	mg/kg	0.00408	1	7/22/03	6:43	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111012
Sample ID: 10026
Project: 845337

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0017	mg/kg	0.0017	1	7/23/03	15:16	J. Adams	8260B	8083
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/23/03	15:16	J. Adams	8260B	8083
Toluene	0.0010 J	mg/kg	0.0017	1	7/23/03	15:16	J. Adams	8260B	8083
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/23/03	15:16	J. Adams	8260B	8083
Methyl-t-butyl ether	0.0014 J	mg/kg	0.0017	1	7/23/03	15:16	J. Adams	8260B	8083
METALS									
Lead	13.6	mg/kg	1.20	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.8	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	7.09 g	5.0 ml	7/17/03	14:25	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	67.	65. - 119.
EPH surr-o-Terphenyl	92.	53. - 123.
VOA Surr 1,2-DCA-d4	97.	58. - 139.
VOA Surr Toluene-d8	85.	71. - 127.
VOA Surr, 4-BFB	96.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111012
Sample ID: 10026
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	86.	67. - 126.
BNA Surr-Nitrobenzene-d5	113. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	87.	45. - 94.
BNA Surr-Terphenyl-d14	90.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111013
Sample ID: 10076
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 15:30
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH OBO (C24-C40)	< 125.	mg/kg	125.	20	7/22/03	9:56	M.Jarrett	8015B	9490
TPH (Gasoline Range)	231.	mg/kg	62.7	50	7/30/03	12:43	J. Redmond	8015B	7319
TPH (Diesel Range)	961.	mg/kg	125.	20	7/22/03	9:56	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Anthracene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Chrysene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Fluorene	0.0277	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	0.209	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Naphthalene	0.112	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Phenanthrene	0.0273	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
Pyrene	< 0.00414	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444
1-Methylnapthalene	0.252	mg/kg	0.00414	1	7/22/03	7:16	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111013
Sample ID: 10076
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.228	mg/kg	0.0858	50	7/25/03	19:05	J. Adams	8260B	5364
Ethylbenzene	0.867	mg/kg	0.0858	50	7/25/03	19:05	J. Adams	8260B	5364
Toluene	0.0095	mg/kg	0.0018	1	7/23/03	15:46	J. Adams	8260B	8083
Xylenes (Total)	0.274	mg/kg	0.0018	1	7/23/03	15:46	J. Adams	8260B	8083
Methyl-t-butyl ether	0.180	mg/kg	0.0858	50	7/25/03	19:05	J. Adams	8260B	5364
METALS									
Lead	15.9	mg/kg	1.22	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.8	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	7.30 g	5.0 ml	7/17/03	15:30	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	79.	65. - 119.
VOA Surr 1,2-DCA-d4	80.	58. - 139.
VOA Surr Toluene-d8	96.	71. - 127.
VOA Surr. 4-BFB	90.	60. - 141.
VOA Surr. DBFM	81.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111013
Sample ID: 10076
Project: 845337

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	221. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	81.	45. - 94.
BNA Surr-Terphenyl-d14	83.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.
Trph-d surrogate recovery diluted out due to sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111014
Sample ID: 10077
Sample Type: Soil
Site ID:

Date Collected: 7/17/03
Time Collected: 15:45
Date Received: 7/18/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.01	mg/kg	6.01	1	7/22/03	5:02	M.Jarrett	8015B	9490
TPH (Gasoline Range)	< 6.01	mg/kg	6.01	1	7/27/03	15:36	J. Redmond	8015B	7393
TPH (Diesel Range)	62.7	mg/kg	6.01	1	7/22/03	5:02	M.Jarrett	8015B	9490
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Acenaphthylene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Anthracene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Benzo(a)anthracene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Benzo(a)pyrene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Benzo(b)fluoranthene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Benzo(g,h,i)perylene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Benzo(k)fluoranthene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Chrysene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Dibenz(a,h)anthracene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Fluoranthene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Fluorene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Indeno(1,2,3-cd)pyrene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
2-Methylnaphthalene	0.0591	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Naphthalene	0.0286	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Phenanthrene	0.00555	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
Pyrene	< 0.00397	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444
1-Methylnapthalene	0.0468	mg/kg	0.00397	1	7/22/03	7:49	D. Harris	8270C-SIM	9444

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111014
Sample ID: 10077
Project: 845337
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.133	mg/kg	0.0832	50	7/25/03	19:37	J. Adams	8260B	5364
Ethylbenzene	0.0376	mg/kg	0.0017	1	7/23/03	16:17	J. Adams	8260B	8083
Toluene	0.0030	mg/kg	0.0017	1	7/23/03	16:17	J. Adams	8260B	8083
Xylenes (Total)	0.0392	mg/kg	0.0017	1	7/23/03	16:17	J. Adams	8260B	8083
Methyl-t-butyl ether	0.296	mg/kg	0.0832	50	7/25/03	19:37	J. Adams	8260B	5364
METALS									
Lead	15.3	mg/kg	1.19	1	7/28/03	11:54	C.Johnson	6010B	8229
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.2	%			7/22/03	14:30	M. Ricke	CLP	7370

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/19/03		M. Cauthen	SW3550
EPH/DRO	25.3 gm	1.0 ml	7/19/03		M. Cauthen	3550
Volatile Organics	7.23 g	5.0 ml	7/17/03	15:45	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	59. #	65. - 119.
EPH surr-o-Terphenyl	76.	53. - 123.
VOA Surr 1,2-DCA-d4	89.	58. - 139.
VOA Surr Toluene-d8	97.	71. - 127.
VOA Surr, 4-BFB	88.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A111014
Sample ID: 10077
Project: 845337

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	95.	67. - 126.
BNA Surr-Nitrobenzene-d5	112. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	80.	45. - 94.
BNA Surr-Terphenyl-d14	84.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 7/18/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	< 0.100	0.837	1.00	84	59. - 125.	8807	blank
TPH (Gasoline Range)	mg/kg	< 5.00	7.77	10.0	78	70. - 134.	7393	03-A111014
TPH (Diesel Range)	mg/kg	< 10.0	33.2	40.0	83	50. - 129.	9490	03-A111601
TPH (Gasoline Range)	mg/l	< 0.0740	1.35	1.00	135#	56. - 134.	7378	BLANK
TPH (Diesel Range)	mg/l	< 0.100	0.837	1.00	84	35. - 130.	8807	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				112	69 - 129	7378	
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0495	0.0500	99	68 - 136	8115	03-A110991
Benzene	mg/l	< 0.0005	0.0540	0.0500	108	68 - 136	7396	BLANK
Benzene	mg/kg	< 0.0003	0.0420	0.0500	84	53 - 140	8083	blank
Toluene	mg/l	< 0.0010	0.0470	0.0500	94	73 - 133	8115	03-A110991
Toluene	mg/l	< 0.0006	0.0437	0.0500	87	73 - 133	7396	BLANK
Toluene	mg/kg	< 0.0008	0.0488	0.0500	98	47 - 142	8083	blank
VOA Surr 1,2-DCA-d4	% Rec				81	58 - 139	8083	
VOA Surr Toluene-d8	% Rec				88	71 - 127	8083	
VOA Surr, 4-BFB	% Rec				95	60 - 141	8083	
VOA Surr, DBFM	% Rec				80	67 - 126	8083	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00080	0.00100	80	28 - 106	9446	BLANK
Pyrene	mg/l	< 0.00010	0.00090	0.00100	90	35 - 118	9446	BLANK
BNA Surr-Nitrobenzene-d5	% Rec				101	34 - 107	9446	
BNA Surr-2-Fluorobiphenyl	% Rec				64	40 - 96	9446	
BNA Surr-Terphenyl-d14	% Rec				78	26 - 106	9446	

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 7/18/03

METALS								
Lead	mg/l	< 0.0030	0.0590	0.0500	118	80 - 120	506	03-A108383
Lead	mg/kg	4.95	184.	200.	90	80 - 120	8229	Duplicate

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	33.2	35.7	7.26	47.	9490
TRPH ORO (C24-C40)	mg/l	0.837	0.792	5.52	26.	8807
TPH (Gasoline Range)	mg/kg	7.77	7.48	3.80	24.	7393
TPH (Diesel Range)	mg/kg	33.2	35.7	7.26	43.	9490
TPH (Gasoline Range)	mg/l	1.35	1.44	6.45	24.	7378
TPH (Diesel Range)	mg/l	0.837	0.792	5.52	41.	8807
BTEX/GRO Surr., a,a,a-TFT	% Recovery		113.			7378
VOA PARAMETERS						
Benzene	mg/l	0.0495	0.0516	4.15	22.	8115
Benzene	mg/l	0.0540	0.0587	8.34	22.	7396
Benzene	mg/kg	0.0420	0.0383	9.22	34.	8083
Toluene	mg/l	0.0470	0.0454	3.46	22.	8115
Toluene	mg/l	0.0437	0.0488	11.03	22.	7396
Toluene	mg/kg	0.0488	0.0455	7.00	39.	8083
VOA Surr 1,2-DCA-d4	% Rec		119.			7396
VOA Surr 1,2-DCA-d4	% Rec		78.			8083
VOA Surr Toluene-d8	% Rec		95.			7396
VOA Surr Toluene-d8	% Rec		88.			8083
VOA Surr, 4-BFB	% Rec		89.			7396
VOA Surr, 4-BFB	% Rec		93.			8083
VOA Surr, DBFM	% Rec		117.			7396
VOA Surr, DBFM	% Rec		80.			8083

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 3
Laboratory Receipt Date: 7/18/03

EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00080	0.00075	6.45	33.	9446
Pyrene	mg/l	0.00090	0.00083	8.09	32.	9446
BNA Surr-Nitrobenzene-d5	% Rec		91.			9446
BNA Surr-Nitrobenzene-d5	% Rec		221.			9444
BNA Surr-2-Fluorobiphenyl	% Rec		60.			9446
BNA Surr-2-Fluorobiphenyl	% Rec		85.			9444
BNA Surr-Terphenyl-d14	% Rec		70.			9446
BNA Surr-Terphenyl-d14	% Rec		85.			9444

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	10.0	10.0	100	80 - 127	7393
TPH (Gasoline Range)	mg/kg	10.0	9.09	91	80 - 127	7319
TPH (Diesel Range)	mg/kg	40.0	36.5	91	50 - 125	9490
TPH (Gasoline Range)	mg/l	1.00	1.01	101	72 - 125	7378
BTEX/GRO Surr., a,a,a-TFT	% Recovery			112	69 - 129	7378
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	36.5	91	30 - 125	9490
TRPH ORO (C24-C40)	mg/l	1.00	0.827	83	59 - 125	8807
TPH (Diesel Range)	mg/l	1.00	0.827	83	35 - 130	8807
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0454	91	78 - 125	8115
Benzene	mg/l	0.0500	0.0544	109	78 - 125	7396
Benzene	mg/kg	0.0500	0.0471	94	75 - 127	8083
Benzene	mg/kg	0.0500	0.0468	94	75 - 127	5364
Ethylbenzene	mg/l	0.0500	0.0481	96	79 - 125	8115
Ethylbenzene	mg/l	0.0500	0.0551	110	79 - 125	7396
Ethylbenzene	mg/kg	0.0500	0.0464	93	69 - 128	8083
Ethylbenzene	mg/kg	0.0500	0.0497	99	69 - 128	5364

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 4
Laboratory Receipt Date: 7/18/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/l	0.0500	0.0469	94	79 - 125	8115
Toluene	mg/l	0.0500	0.0552	110	79 - 125	7396
Toluene	mg/kg	0.0500	0.0445	89	72 - 128	8083
Xylenes (Total)	mg/l	0.150	0.148	99	78 - 127	8115
Xylenes (Total)	mg/l	0.150	0.187	125	78 - 127	7396
Xylenes (Total)	mg/kg	0.150	0.138	92	69 - 128	8083
Methyl-t-butyl ether	mg/l	0.0500	0.0433	87	71 - 135	8115
Methyl-t-butyl ether	mg/l	0.0500	0.0577	115	71 - 135	7396
Methyl-t-butyl ether	mg/kg	0.0500	0.0495	99	58 - 142	8083
Methyl-t-butyl ether	mg/kg	0.0500	0.0470	94	58 - 142	5364
VOA Surr 1,2-DCA-d4	% Rec			118	70 - 133	7396
VOA Surr 1,2-DCA-d4	% Rec			93	58 - 139	8083
VOA Surr 1,2-DCA-d4	% Rec			87	58 - 139	5364
VOA Surr Toluene-d8	% Rec			112	76 - 123	7396
VOA Surr Toluene-d8	% Rec			86	71 - 127	8083
VOA Surr Toluene-d8	% Rec			96	71 - 127	5364
VOA Surr, 4-BFB	% Rec			90	71 - 132	7396
VOA Surr, 4-BFB	% Rec			87	60 - 141	8083
VOA Surr, 4-BFB	% Rec			92	60 - 141	5364
VOA Surr, DBFM	% Rec			115	74 - 128	7396
VOA Surr, DBFM	% Rec			101	67 - 126	8083
VOA Surr, DBFM	% Rec			96	67 - 126	5364
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00087	87	28 - 106	9446
Acenaphthene	mg/kg	0.0330	0.0277	84	26 - 106	9444
Acenaphthylene	mg/l	0.00100	0.00085	85	26 - 106	9446
Acenaphthylene	mg/kg	0.0330	0.0290	88	23 - 113	9444
Anthracene	mg/l	0.00100	0.00100	100	30 - 116	9446
Anthracene	mg/kg	0.0330	0.0304	92	33 - 108	9444
Benzo(a)anthracene	mg/l	0.00100	0.00110	110	38 - 128	9446
Benzo(a)anthracene	mg/kg	0.0330	0.0343	104	47 - 119	9444

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 5
Laboratory Receipt Date: 7/18/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(a)pyrene	mg/l	0.00100	0.00091	91	34 - 117	9446
Benzo(a)pyrene	mg/kg	0.0330	0.0280	85	37 - 106	9444
Benzo(b)fluoranthene	mg/l	0.00100	0.00102	102	37 - 132	9446
Benzo(b)fluoranthene	mg/kg	0.0330	0.0320	97	43 - 121	9444
Benzo(g,h,i)perylene	mg/l	0.00100	0.00089	89	28 - 122	9446
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0290	88	23 - 124	9444
Benzo(k)fluoranthene	mg/l	0.00100	0.00105	105	35 - 128	9446
Benzo(k)fluoranthene	mg/kg	0.0330	0.0290	88	40 - 112	9444
Chrysene	mg/l	0.00100	0.00101	101	42 - 126	9446
Chrysene	mg/kg	0.0330	0.0287	87	48 - 117	9444
Dibenz(a,h)anthracene	mg/l	0.00100	0.00086	86	35 - 124	9446
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0297	90	30 - 129	9444
Fluoranthene	mg/l	0.00100	0.00116	116	35 - 125	9446
Fluoranthene	mg/kg	0.0330	0.0353	107	40 - 119	9444
Fluorene	mg/l	0.00100	0.00092	92	30 - 112	9446
Fluorene	mg/kg	0.0330	0.0294	89	29 - 112	9444
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00090	90	34 - 121	9446
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0307	93	30 - 125	9444
2-Methylnaphthalene	mg/l	0.00100	0.00083	83	31 - 108	9446
2-Methylnaphthalene	mg/kg	0.0330	0.0287	87	31 - 115	9444
Naphthalene	mg/l	0.00100	0.00083	83	9 - 120	9446
Naphthalene	mg/kg	0.0330	0.0290	88	23 - 105	9444
Phenanthrene	mg/l	0.00100	0.00103	103	34 - 116	9446
Phenanthrene	mg/kg	0.0330	0.0300	91	36 - 107	9444
Pyrene	mg/l	0.00100	0.00093	93	35 - 118	9446
Pyrene	mg/kg	0.0330	0.0280	85	38 - 113	9444
1-Methylnaphthalene	mg/l	0.00100	0.00083	83	31 - 112	9446
1-Methylnapthalene	mg/kg	0.0330	0.0290	88	35 - 113	9444

roject QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 6
Laboratory Receipt Date: 7/18/03

BNA Surr-Nitrobenzene-d5	% Rec			111	34 - 107	9446
BNA Surr-2-Fluorobiphenyl	% Rec			71	40 - 96	9446
BNA Surr-Terphenyl-d14	% Rec			80	26 - 106	9446
METALS						
Lead	mg/l	0.0500	0.0590	118	80 - 120	506
Lead	mg/kg	200.	197.	98	80 - 120	8229

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/l	< 0.0030	< 0.0030	N/A	15.	506	03-A108383
Lead	mg/kg	5.20	4.95	4.93	15.	8229	03-A111915
pH	pH Units	7.00	7.00	0.00	15.	7369	03-A111006

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	9490	7/21/03	10:55
TRPH ORO (C24-C40)	< 0.100	mg/l	8807	7/20/03	11:50
TPH (Gasoline Range)	< 5.00	mg/kg	7393	7/27/03	10:44
TPH (Gasoline Range)	< 5.00	mg/kg	7319	7/30/03	4:28
TPH (Diesel Range)	< 10.0	mg/kg	9490	7/21/03	10:55
TPH (Gasoline Range)	< 0.0740	mg/l	7378	7/27/03	19:24
TPH (Diesel Range)	< 0.100	mg/l	8807	7/20/03	11:50

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 7
Laboratory Receipt Date: 7/18/03

UST surr-Trifluorotoluene	67.	% Recovery	7393	7/27/03	10:44
UST surr-Trifluorotoluene	67.	% Recovery	7319	7/30/03	4:28
EPH surr-o-Terphenyl	90.	% Recovery	9490	7/21/03	10:55
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	7378	7/27/03	19:24
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	8115	7/18/03	16:04
Benzene	< 0.0005	mg/l	7396	7/23/03	20:51
Benzene	< 0.0003	mg/kg	8083	7/23/03	12:11
Benzene	< 0.0003	mg/kg	5364	7/25/03	18:03
Ethylbenzene	< 0.0003	mg/l	8115	7/18/03	16:04
Ethylbenzene	< 0.0003	mg/l	7396	7/23/03	20:51
Ethylbenzene	< 0.0005	mg/kg	8083	7/23/03	12:11
Ethylbenzene	< 0.0005	mg/kg	5364	7/25/03	18:03
Toluene	< 0.0006	mg/l	8115	7/18/03	16:04
Toluene	< 0.0006	mg/l	7396	7/23/03	20:51
Toluene	< 0.0008	mg/kg	8083	7/23/03	12:11
Xylenes (Total)	< 0.0009	mg/l	8115	7/18/03	16:04
Xylenes (Total)	< 0.0009	mg/l	7396	7/23/03	20:51
Xylenes (Total)	< 0.0013	mg/kg	8083	7/23/03	12:11
Methyl-t-butyl ether	< 0.0005	mg/l	8115	7/18/03	16:04
Methyl-t-butyl ether	< 0.0005	mg/l	7396	7/23/03	20:51
Methyl-t-butyl ether	< 0.0006	mg/kg	8083	7/23/03	12:11
Methyl-t-butyl ether	< 0.0006	mg/kg	5364	7/25/03	18:03
VOA Surr 1,2-DCA-d4	118.	% Rec	7396	7/23/03	20:51
VOA Surr 1,2-DCA-d4	102.	% Rec	8083	7/23/03	12:11
VOA Surr 1,2-DCA-d4	95.	% Rec	5364	7/25/03	18:03
VOA Surr Toluene-d8	110.	% Rec	7396	7/23/03	20:51
VOA Surr Toluene-d8	85.	% Rec	8083	7/23/03	12:11
VOA Surr Toluene-d8	95.	% Rec	5364	7/25/03	18:03
VOA Surr, 4-BFB	90.	% Rec	7396	7/23/03	20:51
VOA Surr, 4-BFB	82.	% Rec	8083	7/23/03	12:11
VOA Surr, 4-BFB	88.	% Rec	5364	7/25/03	18:03
VOA Surr, DBFM	114.	% Rec	7396	7/23/03	20:51
VOA Surr, DBFM	107.	% Rec	8083	7/23/03	12:11
VOA Surr, DBFM	85.	% Rec	5364	7/25/03	18:03

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 8
Laboratory Receipt Date: 7/18/03

EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	9446	7/21/03	21:52
Acenaphthene	< 0.00330	mg/kg	9444	7/21/03	20:45
Acenaphthylene	< 0.00010	mg/l	9446	7/21/03	21:52
Acenaphthylene	< 0.00330	mg/kg	9444	7/21/03	20:45
Anthracene	< 0.00010	mg/l	9446	7/21/03	21:52
Anthracene	< 0.00330	mg/kg	9444	7/21/03	20:45
Benzo(a)anthracene	< 0.00010	mg/l	9446	7/21/03	21:52
Benzo(a)anthracene	< 0.00330	mg/kg	9444	7/21/03	20:45
Benzo(a)pyrene	< 0.00010	mg/l	9446	7/21/03	21:52
Benzo(a)pyrene	< 0.00330	mg/kg	9444	7/21/03	20:45
Benzo(b)fluoranthene	< 0.00010	mg/l	9446	7/21/03	21:52
Benzo(b)fluoranthene	< 0.00330	mg/kg	9444	7/21/03	20:45
Benzo(g,h,i)perylene	< 0.00010	mg/l	9446	7/21/03	21:52
Benzo(g,h,i)perylene	< 0.00330	mg/kg	9444	7/21/03	20:45
Benzo(k)fluoranthene	< 0.00010	mg/l	9446	7/21/03	21:52
Benzo(k)fluoranthene	< 0.00330	mg/kg	9444	7/21/03	20:45
Chrysene	< 0.00010	mg/l	9446	7/21/03	21:52
Chrysene	< 0.00330	mg/kg	9444	7/21/03	20:45
Dibenz(a,h)anthracene	< 0.00010	mg/l	9446	7/21/03	21:52
Dibenz(a,h)anthracene	< 0.00330	mg/kg	9444	7/21/03	20:45
Fluoranthene	< 0.00010	mg/l	9446	7/21/03	21:52
Fluoranthene	< 0.00330	mg/kg	9444	7/21/03	20:45
Fluorene	< 0.00010	mg/l	9446	7/21/03	21:52
Fluorene	< 0.00330	mg/kg	9444	7/21/03	20:45
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	9446	7/21/03	21:52
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	9444	7/21/03	20:45
2-Methylnaphthalene	< 0.00010	mg/l	9446	7/21/03	21:52
2-Methylnaphthalene	< 0.00330	mg/kg	9444	7/21/03	20:45
Naphthalene	< 0.00010	mg/l	9446	7/21/03	21:52
Naphthalene	< 0.00330	mg/kg	9444	7/21/03	20:45
Phenanthrene	< 0.00010	mg/l	9446	7/21/03	21:52
Phenanthrene	< 0.00330	mg/kg	9444	7/21/03	20:45
Pyrene	< 0.00010	mg/l	9446	7/21/03	21:52
Pyrene	< 0.00330	mg/kg	9444	7/21/03	20:45
1-Methylnaphthalene	< 0.00010	mg/l	9446	7/21/03	21:52

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 9
Laboratory Receipt Date: 7/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1-Methylnapthalene	< 0.00330	mg/kg	9444	7/21/03	20:45
BNA Surr-Nitrobenzene-d5	109.	% Rec	9446	7/21/03	21:52
BNA Surr-Nitrobenzene-d5	122.	% Rec	9444	7/21/03	20:45
BNA Surr-2-Fluorobiphenyl	69.	% Rec	9446	7/21/03	21:52
BNA Surr-2-Fluorobiphenyl	80.	% Rec	9444	7/21/03	20:45
BNA Surr-Terphenyl-d14	80.	% Rec	9446	7/21/03	21:52
BNA Surr-Terphenyl-d14	83.	% Rec	9444	7/21/03	20:45
METALS					
Lead	< 0.0029	mg/l	506	7/24/03	11:28
Lead	< 0.52	mg/kg	8229	7/28/03	11:54

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339794

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM BC# 339794

Client: Pennzoil- Quaker State

Cooler Received On: 7/18/03 And Opened On: 7/18/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 1.0 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2, Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA (water, soil)
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

339794

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

FORM P3606P
(3_6/1/2000)

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

PENNZOIL-QUAKER STATE COMPANY 339794

Client code = 3277

CHAIN OF CUSTODY RECORD

Page 1 of 1

88242

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: ~~372~~ 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828400
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME
☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX, MTBE 8260B	Lead 6010	8270C SIMS	TPH-GRO/DRO KRO/ORO 8015B	TPH-GRO (H2O) 8021B					COMMENTS
10009	7-17-03/0936	Soil	6	3-VOA 1-4oz 2-4oz Gl.	111007	X	X	X	X						*See Attached Yellow Sheet
10001	/1110	Soil	6		8	X	X	X	X						regarding analyses (10% of
10002	/1120	Soil	6		9	X	X	X	X						analyses will be Level III
10003	/1151	Soil	6		10	X	X	X	X						Data Packages)
11003	/1220	H_2O	9	6-VOA 1-HCL 1-250ml 1-AL	111006	X	X	X	X	X					
~~1000~~ 10025	/1415	Soil	6	3-VOA 1-4oz 2-4oz Gl.	11	X	X	X	X						
10026	/1425	Soil	6		12	X	X	X	X						
10076	/1530	Soil	6		13	X	X	X	X						
10077	/1545	Soil	6		111014	X	X	X	X						
TB-4	Lab	Lab	2	2 VOA	11005	X									

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-17-03			Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1750	COMPANY	TIME	REMARKS: Water samples for TPH-GRO run by 8021B
(1) RECEIVED BY SIGNATURE	DATE	(2) RECEIVED BY SIGNATURE	DATE	
		[signature]	7/18/03	
COMPANY	TIME	COMPANY: TA	TIME: 0810	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 7/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845335.
Laboratory Project Number: 340095.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
11060	03-A112620	7/21/03
TB-5	03-A112621	
10073	03-A112622	7/21/03
10074	03-A112623	7/21/03
10070	03-A112624	7/21/03
10071	03-A112625	7/21/03
10072	03-A112626	7/21/03
10060	03-A112627	7/21/03
10064	03-A112628	7/21/03
10065	03-A112629	7/21/03
10073	03-A112630	7/21/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glen R. Norton Report Date: 8/ 5/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112620
Sample ID: 11060
Sample Type: Ground water
Site ID:

Date Collected: 7/21/03
Time Collected: 14:00
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.108	mg/l	0.100	1	7/24/03	4:48	M.Jarrett	8015B/3510	1707
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	7/31/03	20:29	D.Ramey	8015B	9724
TPH (Diesel Range)	0.125	mg/l	0.100	1	7/24/03	4:48	M.Jarrett	8015B/3510	1707
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Acenaphthylene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Anthracene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Benzo(a)anthracene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Benzo(a)pyrene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Benzo(b)fluoranthene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Benzo(g,h,i)perylene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Benzo(k)fluoranthene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Chrysene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Dibenz(a,h)anthracene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Fluoranthene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Fluorene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
2-Methylnaphthalene	0.00025	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Naphthalene	0.00035	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Phenanthrene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
Pyrene	< 0.00010	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
1-Methylnaphthalene	0.00016	mg/l	0.00010	1	7/27/03	22:34	D. Harris	8270C-SIM	1755
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/l	0.0020	1	7/24/03	0:49	C.Reinbold	8260B	9721

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112620
Sample ID: 11060
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Ethylbenzene	< 0.0020	mg/l	0.0020	1	7/24/03	0:49	C.Reinbold	8260B	9721
Toluene	< 0.0020	mg/l	0.0020	1	7/24/03	0:49	C.Reinbold	8260B	9721
Xylenes (Total)	< 0.0020	mg/l	0.0020	1	7/24/03	0:49	C.Reinbold	8260B	9721
Methyl-t-butyl ether	< 0.0020	mg/l	0.0020	1	7/24/03	0:49	C.Reinbold	8260B	9721
METALS									
Lead	< 0.0030	mg/l	0.0030	1	7/24/03	11:28	C.Johnson	6010B	506
MISCELLANEOUS CHEMISTRY									
pH	6.9				7/26/03	9:25	S. Self	9040/150.1	9726

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	7/23/03		M. Ricke	3510C
EPH	1000 ml	1.00 ml	7/23/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	84.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.
VOA Surr 1,2-DCA-d4	114.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	89.	71. - 132.
VOA Surr, DBFM	113.	74. - 128.
BNA Surr-Nitrobenzene-d5	89.	34. - 107.
BNA Surr-2-Fluorobiphenyl	86.	40. - 96.
BNA Surr-Terphenyl-d14	90.	26. - 106.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112620
Sample ID: 11060
Project: 845335
Page 3

LABORATORY COMMENTS:

ND = Not detected at the limit of detection

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112621
Sample ID: TB-5
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0020	mg/l	0.0020	1	7/24/03	0:20	C.Reinbold	8260B	9721
Ethylbenzene	< 0.0020	mg/l	0.0020	1	7/24/03	0:20	C.Reinbold	8260B	9721
Toluene	< 0.0020	mg/l	0.0020	1	7/24/03	0:20	C.Reinbold	8260B	9721
Xylenes (Total)	< 0.0020	mg/l	0.0020	1	7/24/03	0:20	C.Reinbold	8260B	9721
Methyl-t-butyl ether	< 0.0020	mg/l	0.0020	1	7/24/03	0:20	C.Reinbold	8260B	9721

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	113.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	89.	71. - 132.
VOA Surr, DBFM	111.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112622
Sample ID: 10073
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 9:15
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH GRO (C24-C40)	6.41	mg/kg	6.36	1	7/26/03	1:45	M.Jarrett	8015B	4903
TPH (Gasoline Range)	< 6.36	mg/kg	6.36	1	7/31/03	0:32	J. Redmond	8015B	9730
TPH (Diesel Range)	20.4	mg/kg	6.36	1	7/26/03	1:45	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Anthracene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Chrysene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Fluorene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Naphthalene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Phenanthrene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
Pyrene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758
1-Methylnapthalene	< 0.00420	mg/kg	0.00420	1	7/28/03	18:49	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112622
Sample ID: 10073
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0106	mg/kg	0.0018	1	7/25/03	18:34	J. Adams	8260B	724
Ethylbenzene	0.0018	mg/kg	0.0018	1	7/25/03	18:34	J. Adams	8260B	724
Toluene	0.0031	mg/kg	0.0018	1	7/25/03	18:34	J. Adams	8260B	724
Xylenes (Total)	0.0067	mg/kg	0.0018	1	7/25/03	18:34	J. Adams	8260B	724
Methyl-t-butyl ether	0.0037	mg/kg	0.0018	1	7/25/03	18:34	J. Adams	8260B	724
METALS									
Lead	52.9	mg/kg	1.22	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.6	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.6 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	6.94 g	5.0 ml	7/21/03	9:15	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	103.	65. - 119.
EPH surr-o-Terphenyl	72.	53. - 123.
VOA Surr 1,2-DCA-d4	106.	58. - 139.
VOA Surr Toluene-d8	92.	71. - 127.
VOA Surr, 4-BFB	91.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112622
Sample ID: 10073
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	103.	67. - 126.
BNA Surr-Nitrobenzene-d5	81.	44. - 99.
BNA Surr-2-Fluorobiphenyl	82.	45. - 94.
BNA Surr-Terphenyl-d14	77.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
Trph-d ms/msds recovery could not be determined due to
sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112623
Sample ID: 10074
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 9:40
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.20	mg/kg	6.20	1	7/26/03	3:02	M.Jarrett	8015B	4903
TPH (Gasoline Range)	< 6.20	mg/kg	6.20	1	7/31/03	1:08	J. Redmond	8015B	9730
TPH (Diesel Range)	51.7	mg/kg	6.20	1	7/26/03	3:02	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Anthracene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Chrysene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Fluorene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Naphthalene	0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Phenanthrene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
Pyrene	< 0.00409	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758
1-Methylnapthalene	0.0368	mg/kg	0.00409	1	7/28/03	19:23	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112623
Sample ID: 10074
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0037	mg/kg	0.0016	1	7/23/03	17:19	J. Adams	8260B	724
Ethylbenzene	0.0052	mg/kg	0.0016	1	7/23/03	17:19	J. Adams	8260B	724
Toluene	0.0011 J	mg/kg	0.0016	1	7/23/03	17:19	J. Adams	8260B	724
Xylenes (Total)	< 0.0016	mg/kg	0.0016	1	7/23/03	17:19	J. Adams	8260B	724
Methyl-t-butyl ether	0.0157	mg/kg	0.0016	1	7/23/03	17:19	J. Adams	8260B	724
METALS									
Lead	12.1	mg/kg	1.23	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.7	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	24.7 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	7.45 g	5.0 ml	7/21/03	9:40	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	107.	65. - 119.
EPH surr-o-Terphenyl	77.	53. - 123.
VOA Surr 1,2-DCA-d4	104.	58. - 139.
VOA Surr Toluene-d8	92.	71. - 127.
VOA Surr, 4-BFB	90.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112623
Sample ID: 10074
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	100.	67. - 126.
BNA Surr-Nitrobenzene-d5	339. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	89.	45. - 94.
BNA Surr-Terphenyl-d14	83.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112624
Sample ID: 10070
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 10:05
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 12.5	mg/kg	12.5	2	7/26/03	11:05	M.Jarrett	8015B	4903
TPH (Gasoline Range)	< 6.23	mg/kg	6.23	1	7/31/03	1:44	J. Redmond	8015B	9730
TPH (Diesel Range)	117.	mg/kg	12.5	2	7/26/03	11:05	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Anthracene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	0.00535	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	0.0103	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	0.00617	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	0.00823	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	0.00494	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Chrysene	0.00299J	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Fluorene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	0.00988	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Naphthalene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Phenanthrene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
Pyrene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758
1-Methylnapthalene	< 0.00411	mg/kg	0.00411	1	7/28/03	19:57	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112624
Sample ID: 10070
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0017	mg/kg	0.0017	1	7/23/03	17:49	J. Adams	8260B	724
Ethylbenzene	< 0.0017	mg/kg	0.0017	1	7/23/03	17:49	J. Adams	8260B	724
Toluene	0.0020	mg/kg	0.0017	1	7/23/03	17:49	J. Adams	8260B	724
Xylenes (Total)	< 0.0017	mg/kg	0.0017	1	7/23/03	17:49	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/23/03	17:49	J. Adams	8260B	724
METALS									
Lead	16.3	mg/kg	1.22	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.2	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.6 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	6.95 g	5.0 ml	7/21/03	10:05	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 119.
EPH Surr-o-Terphenyl	94.	53. - 123.
VOA Surr 1,2-DCA-d4	99.	58. - 139.
VOA Surr Toluene-d8	88.	71. - 127.
VOA Surr, 4-BFB	96.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112624
Sample ID: 10070
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	72.	44. - 99.
BNA Surr-2-Fluorobiphenyl	85.	45. - 94.
BNA Surr-Terphenyl-d14	88.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112625
Sample ID: 10071
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 10:25
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.24	mg/kg	6.24	1	7/26/03	3:41	M.Jarrett	8015B	4903
TPH (Gasoline Range)	54.8	mg/kg	6.24	1	7/31/03	2:21	J. Redmond	8015B	9730
TPH (Diesel Range)	59.7	mg/kg	6.24	1	7/26/03	3:41	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Anthracene	0.00577	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Chrysene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Fluorene	0.0149	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	0.0597	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Naphthalene	0.0305	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Phenanthrene	0.0107	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
Pyrene	< 0.00412	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758
1-Methylnapthalene	0.115	mg/kg	0.00412	1	7/28/03	20:31	D. Harris	8270C-SIM	1758

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ANALYTICAL REPORT

Laboratory Number: 03-A112625
Sample ID: 10071
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0045	mg/kg	0.0017	1	7/23/03	18:20	J. Adams	8260B	724
Ethylbenzene	0.0581	mg/kg	0.0017	1	7/23/03	18:20	J. Adams	8260B	724
Toluene	0.0025	mg/kg	0.0017	1	7/23/03	18:20	J. Adams	8260B	724
Xylenes (Total)	0.0292	mg/kg	0.0017	1	7/23/03	18:20	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0017	mg/kg	0.0017	1	7/23/03	18:20	J. Adams	8260B	724
METALS									
Lead	13.4	mg/kg	1.21	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.1	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/23/03		M. Ricke	SW3550
RPH/DRO	25.3 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	6.91 g	5.0 ml	7/21/03	10:25	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
EPH surr-o-Terphenyl	86.	53. - 123.
VOA Surr 1,2-DCA-d4	147. #	58. - 139.
VOA Surr Toluene-d8	484. #	71. - 127.
VOA Surr, 4-BFB	125.	60. - 141.

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ANALYTICAL REPORT

Laboratory Number: 03-A112625
Sample ID: 10071
Project: 845335
Page 3

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	104.	67. - 126.
BNA Surr-Nitrobenzene-d5	108. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	87.	45. - 94.
BNA Surr-Terphenyl-d14	87.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
H = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogate(s) outside QC range due to sample matrix.
BNA surrogates outside QC range due to sample matrix.

nd of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112626
Sample ID: 10072
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 10:55
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.18	mg/kg	6.18	1	7/26/03	4:00	M.Jarrett	8015B	4903
TPH (Gasoline Range)	< 6.18	mg/kg	6.18	1	7/31/03	2:57	J. Redmond	8015B	9730
TPH (Diesel Range)	< 6.18	mg/kg	6.18	1	7/26/03	4:00	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Anthracene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Chrysene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Fluorene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	0.00530	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Naphthalene	0.0335	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Phenanthrene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
Pyrene	< 0.00408	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758
1-Methylnapthalene	0.00205J	mg/kg	0.00408	1	7/28/03	22:12	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112626
Sample ID: 10072
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0011 J	mg/kg	0.0016	1	7/23/03	18:51	J. Adams	8260B	724
Ethylbenzene	< 0.0016	mg/kg	0.0016	1	7/23/03	18:51	J. Adams	8260B	724
Toluene	< 0.0016	mg/kg	0.0016	1	7/23/03	18:51	J. Adams	8260B	724
Xylenes (Total)	< 0.0016	mg/kg	0.0016	1	7/23/03	18:51	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0016	mg/kg	0.0016	1	7/23/03	18:51	J. Adams	8260B	724
METALS									
Lead	13.8	mg/kg	1.20	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.9	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.5 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	7.94 g	5.0 ml	7/21/03	10:55	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	65. - 119.
EPH surr-o-Terphenyl	87.	53. - 123.
VOA Surr 1,2-DCA-d4	102.	58. - 139.
VOA Surr Toluene-d8	86.	71. - 127.
VOA Surr, 4-BFB	92.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112626
Sample ID: 10072
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	94.	67. - 126.
BNA Surr-Nitrobenzene-d5	80.	44. - 99.
BNA Surr-2-Fluorobiphenyl	86.	45. - 94.
BNA Surr-Terphenyl-d14	79.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112627
Sample ID: 10060
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 12:42
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORG (C24-C40)	< 286.	mg/kg	286.	50	7/26/03	11:25	M.Jarrett	8015B	4903
TPH (Gasoline Range)	132.	mg/kg	5.73	1	7/31/03	3:33	J. Redmond	8015B	9730
TPH (Diesel Range)	977.	mg/kg	286.	50	7/26/03	11:25	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	0.134	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Acenaphthylene	0.0541	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Anthracene	0.0866	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Chrysene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Fluorene	0.0601	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00378	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Naphthalene	0.0197	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Phenanthrene	0.0363	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
Pyrene	0.0238	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758
1-Methylnapthalene	0.0419	mg/kg	0.00378	1	7/28/03	22:46	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112627
Sample ID: 10060
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/23/03	19:22	J. Adams	8260B	724
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/23/03	19:22	J. Adams	8260B	724
Toluene	< 0.0019	mg/kg	0.0019	1	7/23/03	19:22	J. Adams	8260B	724
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/23/03	19:22	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/23/03	19:22	J. Adams	8260B	724
METALS									
Lead	8.02	mg/kg	1.15	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.3	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	5.83 g	5.0 ml	7/21/03	12:42	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	107.	65. - 119.
VOA Surr 1,2-DCA-d4	103.	58. - 139.
VOA Surr Toluene-d8	99.	71. - 127.
VOA Surr, 4-BFB	750. #	60. - 141.
VOA Surr, DBFM	96.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112627
Sample ID: 10060
Project: 845335

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	1820 #	44. - 99.
BNA Surr-2-Fluorobiphenyl	87.	45. - 94.
BNA Surr-Terphenyl-d14	92.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogate(s) outside QC range due to sample matrix.
BNA surrogates outside QC range due to sample matrix.
Trph-d surrogate recovery diluted out due to sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112628
Sample ID: 10064
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 16:20
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORD (C24-C40)	< 639.	mg/kg	639.	100	7/26/03	11:45	M.Jarrett	8015B	4903
TPH (Gasoline Range)	729.	mg/kg	63.9	10	8/ 1/03	11:11	J. Redmond	8015B	8941
TPH (Diesel Range)	3010	mg/kg	639.	100	7/26/03	11:45	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Anthracene	0.0189	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	0.00464	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	0.00549	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	0.00760	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Chrysene	0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Fluorene	0.193	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Naphthalene	< 0.00422	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Phenanthrene	0.137	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
Pyrene	0.00675	mg/kg	0.00422	1	7/28/03	23:19	D. Harris	8270C-SIM	1758
1-Methylnapthalene	1.38	mg/kg	0.0422	10	7/29/03	8:14	D. Harris	8270C-SIM	1758

mple report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112628
Sample ID: 10064
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0043	mg/kg	0.0018	1	7/23/03	19:52	J. Adams	8260B	724
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/23/03	19:52	J. Adams	8260B	724
Toluene	0.0058	mg/kg	0.0018	1	7/23/03	19:52	J. Adams	8260B	724
Xylenes (Total)	< 0.0018	mg/kg	0.0018	1	7/23/03	19:52	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/23/03	19:52	J. Adams	8260B	724
METALS									
Lead	15.1	mg/kg	1.25	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.2	%			7/23/03	15:31	M. Ricke	CLP	9733

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	6.95 g	5.0 ml	7/21/03	16:20	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	65. - 119.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	542. #	71. - 127.
VOA Surr, 4-BFB	746. #	60. - 141.
VOA Surr, DBFM	84.	67. - 126.

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ANALYTICAL REPORT

Laboratory Number: 03-A112628
Sample ID: 10064
Project: 845335

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	5210 #	44. - 99.
BNA Surr-2-Fluorobiphenyl	96. #	45. - 94.
BNA Surr-Terphenyl-d14	87.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogate(s) outside QC range due to sample matrix.
BNA surrogates outside QC range due to sample matrix.
BNA PQL's elevated due to sample matrix.
Trph-d surrogate recovery diluted out due to sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112629
Sample ID: 10065
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 16:29
Date Received: 7/22/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH GRO (C24-C40)	< 62.7	mg/kg	62.7	10	7/26/03	12:04	M.Jarrett	8015B	4903
TPH (Gasoline Range)	26.2	mg/kg	6.27	1	7/31/03	4:09	J. Redmond	8015B	9730
TPH (Diesel Range)	138.	mg/kg	62.7	10	7/26/03	12:04	M.Jarrett	8015B	4903
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Acenaphthylene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Anthracene	0.00662	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Benzo(a)anthracene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Benzo(a)pyrene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Benzo(b)fluoranthene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Benzo(g,h,i)perylene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Benzo(k)fluoranthene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Chrysene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Dibenz(a,h)anthracene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Fluoranthene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Fluorene	0.0299	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Indeno(1,2,3-cd)pyrene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
2-Methylnaphthalene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Naphthalene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Phenanthrene	0.0124	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
Pyrene	< 0.00414	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758
1-Methylnapthalene	0.285	mg/kg	0.00414	1	7/28/03	23:53	D. Harris	8270C-SIM	1758

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112629
Sample ID: 10065
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0020	mg/kg	0.0019	1	7/23/03	20:23	J. Adams	8260B	724
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/23/03	20:23	J. Adams	8260B	724
Toluene	< 0.0019	mg/kg	0.0019	1	7/23/03	20:23	J. Adams	8260B	724
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/23/03	20:23	J. Adams	8260B	724
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/23/03	20:23	J. Adams	8260B	724
METALS									
Lead	12.9	mg/kg	1.19	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.7	%			7/23/03	15:31	M. Ricke	CLP	9732

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/23/03		M. Ricke	SW3550
EPH/DRO	25.0 gm	1.0 ml	7/23/03		M. Ricke	3550
Volatile Organics	6.86 g	5.0 ml	7/21/03	16:29	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 119.
VOA Surr 1,2-DCA-d4	92.	58. - 139.
VOA Surr Toluene-d8	90.	71. - 127.
VOA Surr, 4-BFB	76.	60. - 141.
VOA Surr, DBFM	85.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A112629
Sample ID: 10065
Project: 845335

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	93.	44. - 99.
BNA Surr-2-Fluorobiphenyl	86.	45. - 94.
BNA Surr-Terphenyl-d14	83.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

Trph-d surrogate recovery diluted out due to sample matrix

nd of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A112630
Sample ID: 10073
Sample Type: Soil
Site ID:

Date Collected: 7/21/03
Time Collected: 9:15
Date Received: 7/22/03
Time Received: 8:10
Page: 1

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead, TCLP	< 0.500	mg/l	5.0	103	7/28/03	6010B
TCLP Extraction	Initiated				7/25/03	1311

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
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Laboratory Receipt Date: 7/22/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	< 0.100	0.994	1.00	99	59. - 125.	1707	blank
TPH (Gasoline Range)	mg/kg	20.9	36.5	50.0	31#	62. - 129.	9730	03-A112629
TPH (Gasoline Range)	mg/l	< 0.100	1.14	1.00	114	56. - 134.	9724	03-A112620
TPH (Diesel Range)	mg/l	< 0.100	0.994	1.00	99	35. - 130.	1707	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				114	69 - 129	9724	
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0540	0.0500	108	68 - 136	9721	BLANK
Benzene	mg/kg	< 0.0003	0.0420	0.0500	84	53 - 140	724	blank
Toluene	mg/l	< 0.0006	0.0437	0.0500	87	73 - 133	9721	BLANK
Toluene	mg/kg	< 0.0008	0.0488	0.0500	98	47 - 142	724	blank
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00099	0.00100	99	28 - 106	1755	BLANK
Pyrene	mg/l	< 0.00010	0.00106	0.00100	106	35 - 118	1755	BLANK
BNA Surr-Nitrobenzene-d5	% Rec				80	34 - 107	1755	
BNA Surr-2-Fluorobiphenyl	% Rec				87	40 - 96	1755	
BNA Surr-Terphenyl-d14	% Rec				79	26 - 106	1755	
METALS								
Lead	mg/l	< 0.0030	0.0590	0.0500	118	80 - 120	506	03-A108383
Lead	mg/kg	12.6	189.	200.	88	80 - 120	9728	03-A113379
Lead, TCLP	mg/l	< 0.500	51.6	50.0	103	80 - 120	9734	03-A112630

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 2
Laboratory Receipt Date: 7/22/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/l	0.994	0.883	11.83	26.	1707
TPH (Gasoline Range)	mg/kg	36.5	27.7	27.41#	21.	9730
TPH (Gasoline Range)	mg/l	1.14	1.15	0.87	24.	9724
TPH (Diesel Range)	mg/l	0.994	0.883	11.83	41.	1707
BTEX/GRO Surr., a,a,a-TFT	% Recovery		114.			9724
VOA PARAMETERS						
Benzene	mg/l	0.0540	0.0587	8.34	22.	9721
Benzene	mg/kg	0.0420	0.0383	9.22	34.	724
Toluene	mg/l	0.0437	0.0488	11.03	22.	9721
Toluene	mg/kg	0.0488	0.0455	7.00	39.	724
VOA Surr 1,2-DCA-d4	% Rec		119.			9721
VOA Surr 1,2-DCA-d4	% Rec		78.			724
VOA Surr Toluene-d8	% Rec		95.			9721
VOA Surr Toluene-d8	% Rec		88.			724
VOA Surr, 4-BFB	% Rec		89.			9721
VOA Surr, 4-BFB	% Rec		93.			724
VOA Surr, DBFM	% Rec		117.			9721
VOA Surr, DBFM	% Rec		80.			724
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00099	0.00094	5.18	33.	1755
Pyrene	mg/l	0.00106	0.00115	8.14	32.	1755
BNA Surr-Nitrobenzene-d5	% Rec		75.			1755
BNA Surr-Nitrobenzene-d5	% Rec		188.			1758
BNA Surr-2-Fluorobiphenyl	% Rec		82.			1755
BNA Surr-2-Fluorobiphenyl	% Rec		90.			1758
BNA Surr-Terphenyl-d14	% Rec		80.			1755
BNA Surr-Terphenyl-d14	% Rec		85.			1758

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 3
Laboratory Receipt Date: 7/22/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	50.0	45.2	90	75 - 121	9730
TPH (Gasoline Range)	mg/kg	50.0	46.9	94	75 - 121	8941
TPH (Diesel Range)	mg/kg	40.0	34.8	87	50 - 125	4903
TPH (Gasoline Range)	mg/l	1.00	0.995	100	72 - 125	9724
BTEX/GRO Surr., a,a,a-TFT	% Recovery			121	69 - 129	9724
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	34.8	87	30 - 125	4903
TRPH ORO (C24-C40)	mg/l	1.00	0.849	85	59 - 125	1707
TPH (Diesel Range)	mg/l	1.00	0.849	85	35 - 130	1707
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0544	109	78 - 125	9721
Benzene	mg/kg	0.0500	0.0471	94	75 - 127	724
Ethylbenzene	mg/l	0.0500	0.0551	110	79 - 125	9721
Ethylbenzene	mg/kg	0.0500	0.0464	93	69 - 128	724
Toluene	mg/l	0.0500	0.0552	110	79 - 125	9721
Toluene	mg/kg	0.0500	0.0445	89	72 - 128	724
Xylenes (Total)	mg/l	0.150	0.187	125	78 - 127	9721
Xylenes (Total)	mg/kg	0.150	0.138	92	69 - 128	724
Methyl-t-butyl ether	mg/l	0.0500	0.0577	115	71 - 135	9721
Methyl-t-butyl ether	mg/kg	0.0500	0.0495	99	58 - 142	724
VOA Surr 1,2-DCA-d4	% Rec			118	70 - 133	9721
VOA Surr 1,2-DCA-d4	% Rec			93	58 - 139	724
VOA Surr Toluene-d8	% Rec			112	76 - 123	9721
VOA Surr Toluene-d8	% Rec			86	71 - 127	724
VOA Surr, 4-BFB	% Rec			90	71 - 132	9721
VOA Surr, 4-BFB	% Rec			87	60 - 141	724
VOA Surr, DBFM	% Rec			115	74 - 128	9721

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 4
Laboratory Receipt Date: 7/22/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, DBFM	% Rec			101	67 - 126	724
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00092	92	28 - 106	1755
Acenaphtbene	mg/kg	0.0330	0.0330	100	26 - 106	1758
Acenaphthylene	mg/l	0.00100	0.00082	82	26 - 106	1755
Acenaphthylene	mg/kg	0.0330	0.0294	89	23 - 113	1758
Anthracene	mg/l	0.00100	0.00096	96	30 - 116	1755
Anthracene	mg/kg	0.0330	0.0323	98	33 - 108	1758
Benzo(a)anthracene	mg/l	0.00100	0.00107	107	38 - 128	1755
Benzo(a)anthracene	mg/kg	0.0330	0.0330	100	47 - 119	1758
Benzo(a)pyrene	mg/l	0.00100	0.00090	90	34 - 117	1755
Benzo(a)pyrene	mg/kg	0.0330	0.0297	90	37 - 106	1758
Benzo(b)fluoranthene	mg/l	0.00100	0.00096	96	37 - 132	1755
Benzo(b)fluoranthene	mg/kg	0.0330	0.0304	92	43 - 121	1758
Benzo(g,h,i)perylene	mg/l	0.00100	0.00095	95	28 - 122	1755
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0320	97	23 - 124	1758
Benzo(k)fluoranthene	mg/l	0.00100	0.00109	109	35 - 128	1755
Benzo(k)fluoranthene	mg/kg	0.0330	0.0360	109	40 - 112	1758
Chrysene	mg/l	0.00100	0.00114	114	42 - 126	1755
Chrysene	mg/kg	0.0330	0.0376	114	48 - 117	1758
Dibenz(a,h)anthracene	mg/l	0.00100	0.00086	86	35 - 124	1755
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0274	83	30 - 129	1758
Fluoranthene	mg/l	0.00100	0.00102	102	35 - 125	1755
Fluoranthene	mg/kg	0.0330	0.0333	101	40 - 119	1758
Fluorene	mg/l	0.00100	0.00096	96	30 - 112	1755
Fluorene	mg/kg	0.0330	0.0353	107	29 - 112	1758
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00089	89	34 - 121	1755
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0284	86	30 - 125	1758
2-Methylnaphthalene	mg/l	0.00100	0.00081	81	31 - 108	1755
2-Methylnaphthalene	mg/kg	0.0330	0.0304	92	31 - 115	1758
Naphthalene	mg/l	0.00100	0.00080	80	9 - 120	1755

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/kg	0.0330	0.0290	88	23 - 105	1758
Phenanthrene	mg/l	0.00100	0.00099	99	34 - 116	1755
Phenanthrene	mg/kg	0.0330	0.0343	104	36 - 107	1758
Pyrene	mg/l	0.00100	0.00119	119 #	35 - 118	1755
Pyrene	mg/kg	0.0330	0.0370	112	38 - 113	1758
1-Methylnaphthalene	mg/l	0.00100	0.00084	84	31 - 112	1755
1-Methylnapthalene	mg/kg	0.0330	0.0310	94	35 - 113	1758
BNA Surr-Nitrobenzene-d5	% Rec			74	34 - 107	1755
BNA Surr-2-Fluorobiphenyl	% Rec			81	40 - 96	1755
BNA Surr-Terphenyl-d14	% Rec			83	26 - 106	1755
METALS						
Lead	mg/l	0.0500	0.0590	118	80 - 120	506
Lead	mg/kg	200.	200.	100	80 - 120	9728
Lead, TCLP	mg/l	5.00	5.07	101	80 - 120	9734

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/l	< 0.0030	< 0.0030	N/A	15.	506	03-A108383
Lead	mg/kg	12.6	10.1	22.03 #	15.	9728	03-A113379
pH	pH Units	6.90	6.90	0.00	15.	9726	03-A112620

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 6
Laboratory Receipt Date: 7/22/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 0.100	mg/l	1707	7/24/03	3:14
TPH (Gasoline Range)	< 5.00	mg/kg	9730	7/30/03	23:56
TPH (Gasoline Range)	< 5.00	mg/kg	8941	8/ 1/03	10:35
TPH (Gasoline Range)	< 0.0740	mg/l	9724	7/31/03	19:54
TPH (Diesel Range)	< 0.108	mg/l	1707	7/24/03	3:14
UST surr-Trifluorotoluene	103.	% Recovery	9730	7/30/03	23:56
UST surr-Trifluorotoluene	107.	% Recovery	8941	8/ 1/03	10:35
BTEX/GRO Surr., a,a,a-TFT	95.	% Recovery	9724	7/31/03	19:54
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	9721	7/23/03	20:51
Benzene	< 0.0003	mg/kg	724	7/23/03	12:11
Ethylbenzene	< 0.0003	mg/l	9721	7/23/03	20:51
Ethylbenzene	< 0.0005	mg/kg	724	7/23/03	12:11
Toluene	< 0.0006	mg/l	9721	7/23/03	20:51
Toluene	< 0.0008	mg/kg	724	7/23/03	12:11
Xylenes (Total)	< 0.0009	mg/l	9721	7/23/03	20:51
Xylenes (Total)	< 0.0013	mg/kg	724	7/23/03	12:11
Methyl-t-butyl ether	< 0.0005	mg/l	9721	7/23/03	20:51
Methyl-t-butyl ether	< 0.0006	mg/kg	724	7/23/03	12:11
VOA Surr 1,2-DCA-d4	118.	% Rec	9721	7/23/03	20:51
VOA Surr 1,2-DCA-d4	102.	% Rec	724	7/23/03	12:11
VOA Surr Toluene-d8	110.	% Rec	9721	7/23/03	20:51
VOA Surr Toluene-d8	85.	% Rec	724	7/23/03	12:11
VOA Surr, 4-BFB	90.	% Rec	9721	7/23/03	20:51
VOA Surr, 4-BFB	82.	% Rec	724	7/23/03	12:11
VOA Surr, DBFM	114.	% Rec	9721	7/23/03	20:51
VOA Surr, DBFM	107.	% Rec	724	7/23/03	12:11

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 7
Laboratory Receipt Date: 7/22/03

EXTRACTABLE PARAMETERS

Acenaphthene	< 0.00010	mg/l	1755	7/27/03	19:12
Acenaphthene	< 0.00330	mg/kg	1758	7/28/03	15:55
Acenaphthylene	< 0.00010	mg/l	1755	7/27/03	19:12
Acenaphthylene	< 0.00330	mg/kg	1758	7/28/03	15:55
Anthracene	< 0.00010	mg/l	1755	7/27/03	19:12
Anthracene	< 0.00330	mg/kg	1758	7/28/03	15:55
Benzo(a)anthracene	< 0.00010	mg/l	1755	7/27/03	19:12
Benzo(a)anthracene	< 0.00330	mg/kg	1758	7/28/03	15:55
Benzo(a)pyrene	< 0.00010	mg/l	1755	7/27/03	19:12
Benzo(a)pyrene	< 0.00330	mg/kg	1758	7/28/03	15:55
Benzo(b)fluoranthene	< 0.00010	mg/l	1755	7/27/03	19:12
Benzo(b)fluoranthene	< 0.00330	mg/kg	1758	7/28/03	15:55
Benzo(g,h,i)perylene	< 0.00010	mg/l	1755	7/27/03	19:12
Benzo(g,h,i)perylene	< 0.00330	mg/kg	1758	7/28/03	15:55
Benzo(k)fluoranthene	< 0.00010	mg/l	1755	7/27/03	19:12
Benzo(k)fluoranthene	< 0.00330	mg/kg	1758	7/28/03	15:55
Chrysene	< 0.00010	mg/l	1755	7/27/03	19:12
Chrysene	< 0.00330	mg/kg	1758	7/28/03	15:55
Dibenz(a,h)anthracene	< 0.00010	mg/l	1755	7/27/03	19:12
Dibenz(a,h)anthracene	< 0.00330	mg/kg	1758	7/28/03	15:55
Fluoranthene	< 0.00010	mg/l	1755	7/27/03	19:12
Fluoranthene	< 0.00330	mg/kg	1758	7/28/03	15:55
Fluorene	< 0.00010	mg/l	1755	7/27/03	19:12
Fluorene	< 0.00330	mg/kg	1758	7/28/03	15:55
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	1755	7/27/03	19:12
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	1758	7/28/03	15:55
2-Methylnaphthalene	< 0.00010	mg/l	1755	7/27/03	19:12
2-Methylnaphthalene	< 0.00330	mg/kg	1758	7/28/03	15:55
Naphthalene	< 0.00010	mg/l	1755	7/27/03	19:12
Naphthalene	< 0.00330	mg/kg	1758	7/28/03	15:55
Phenanthrene	< 0.00010	mg/l	1755	7/27/03	19:12
Phenanthrene	< 0.00330	mg/kg	1758	7/28/03	15:55
Pyrene	< 0.00010	mg/l	1755	7/27/03	19:12
Pyrene	< 0.00330	mg/kg	1758	7/28/03	15:55
1-Methylnaphthalene	< 0.00010	mg/l	1755	7/27/03	19:12

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 8
Laboratory Receipt Date: 7/22/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1-Methylnapthalene	< 0.00330	mg/kg	1758	7/28/03	15:55
BNA Surr-Nitrobenzene-d5	82.	% Rec	1755	7/27/03	19:12
BNA Surr-Nitrobenzene-d5	84.	% Rec	1758	7/28/03	15:55
BNA Surr-2-Fluorobiphenyl	87.	% Rec	1755	7/27/03	19:12
BNA Surr-2-Fluorobiphenyl	95.	% Rec	1758	7/28/03	15:55
BNA Surr-Terphenyl-d14	91.	% Rec	1755	7/27/03	19:12
BNA Surr-Terphenyl-d14	86.	% Rec	1758	7/28/03	15:55
METALS					
Lead	< 0.0029	mg/l	506	7/24/03	11:28
Lead	< 0.52	mg/kg	9728	7/24/03	14:12
Lead, TCLP	< 0.500	mg/l	9734	7/28/03	11:18

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 340095

NASHVILLE ALERT FORM FOR SAMPLE LOGIN

This form is to be emailed only to the appropriate parties. The email will serve as the document control of the date and time received/sent.

ALERT INFORMATION: **Project TAT = _____ DAY**
Documentation Level: II III IV

- Client Name: Pennzoil Quaker State
- Client Number:3277
- Project Name: Etowah Terminal
- Project Number: PQS-5771
- Date to receive cooler: 7/22/03
- How many samples are there? Sample ID: 10073
- Matrix of samples:?
- What tests will be on the COC? Total and TCLP Pb
- Will a copy of the COC be faxed? YES or NO
  Please highlight/circle the appropriate answer.
- Is this Project TAT Pre-Approved? YES or NO
  Please highlight/circle the appropriate answer. Login, for pre-approved projects, please answer demographic "Approved Rush (YES)?" (60271) for every sample.

PURPOSE OF THIS ALERT:

- Heads up for incoming project: The sample is not checked for Pb by 6010, they need to run both Total and TCLP Pb on sample 10073 per George Robertson.

  Or

- Project changes prior to sample login:

LOGIN: REMEMBER TO ALWAYS PRINT CLIENT NOTES, WHEN APPLICABLE.

340095

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

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Nashville Division

COOLER RECEIPT FORM BC# 340095

Client: Pennzoil - Quaker State

Cooler Received On: 7/22/03 And Opened On: 7/22/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 1.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2 Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street Fedex Misc.

FORM 6P
(3_6/1...)

340095 PENNZOIL QUAKER STATE COMPANY

Client Code = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 1 88249

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764600, 838199764622
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 2

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B BTEX, MTBE	6010 Lead	8270C SIMS PAH	TPH-GRO 8015B	TPH-DRO/KRO ORO 8015B	TPH-GRO 8021B	TCLP Lead			COMMENTS
10073	7-21-03/0915	Soil	6	3-VOA, 1-4oz Pl 2-4oz Gl.	112622 / 112633	X		X	X	X		X			* See attached Yellow shee
2 10074	/0940	Soil	6		23	X	X	X	X	X					regarding analyses (10%
10070	/1005	Soil	6		24	X	X	X	X	X					of analyses will be
4 10071	/1025	Soil	6		25	X	X	X	X	X					Level III Data Packages)
10072	/1055	Soil	6		26	X	X	X	X	X					
6 10060	/1242	Soil	6		27	X	X	X	X	X					
10064	/1620	Soil	6		28	X	X	X	X	X					
8 10065	/1629	Soil	6		112629	X	X	X	X	X					
11060	/1400	H_2O	9	6-VOA, 1-250mL 1-HCl AL, 1-AL	112620	X	X	X		X	X				
TB-5	Lab/Lab	H_2O	2	2-VOA	112621	X									

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-21-03			Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1830	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE: 7/22/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY 1.5	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 6/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845335.
Laboratory Project Number: 340285.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
11069	03-A113373	7/22/03
TB-6	03-A113374	
10066	03-A113375	7/22/03
10061	03-A113376	7/22/03
10062	03-A113377	7/22/03
10067	03-A113378	7/22/03
10068	03-A113379	7/22/03
10069	03-A113380	7/22/03
12062	03-A113381	7/22/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glenn R. Norton Report Date: 8/ 5/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113373
Sample ID: 11069
Sample Type: Ground water
Site ID:

Date Collected: 7/22/03
Time Collected: 14:30
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 100.	ug/L	100.	1	7/25/03	18:31	Weatherly	8015B/3510	2721
TPH (Gasoline Range)	< 100.	ug/L	100.	1	7/31/03	21:04	D.Ramey	8015B	793
TPH (Diesel Range)	131.	ug/L	100.	1	7/25/03	18:31	Weatherly	8015B/3510	2721
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Acenaphthylene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Anthracene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Benzo(a)anthracene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Benzo(a)pyrene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Benzo(b)fluoranthene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Benzo(g,h,i)perylene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Benzo(k)fluoranthene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Chrysene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Dibenz(a,h)anthracene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Fluoranthene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Fluorene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Indeno(1,2,3-cd)pyrene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
2-Methylnaphthalene	0.21	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Naphthalene	0.26	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Phenanthrene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
Pyrene	< 0.10	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
1-Methylnaphthalene	0.15	ug/L	0.10	1	7/28/03	15:20	D. Harris	8270C-SIM	4041
VOLATILE ORGANICS									
Benzene	< 1.0	ug/L	1.0	1	7/24/03	1:19	C.Reinbold	8260B	3258

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113373
Sample ID: 11069
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Ethylbenzene	< 1.0	ug/L	1.0	1	7/24/03	1:19	C.Reinbold	8260B	3258
Toluene	< 1.0	ug/L	1.0	1	7/24/03	1:19	C.Reinbold	8260B	3258
Xylenes (Total)	< 1.0	ug/L	1.0	1	7/24/03	1:19	C.Reinbold	8260B	3258
Methyl-t-butyl ether	< 1.0	ug/L	1.0	1	7/24/03	1:19	C.Reinbold	8260B	3258
METALS									
Lead	< 3.0	ug/L	3.0	1	7/31/03	10:03	C. Martin	6010B	8083
MISCELLANEOUS CHEMISTRY									
pH	7.2				7/26/03	9:25	S. Self	9040/150.1	797

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	7/24/03		M. Ricke	3510C
EPH	1000 ml	1.00 ml	7/24/03		M. Cauthen	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	77.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	94.	69. - 129.
VOA Surr 1,2-DCA-d4	115.	70. - 133.
VOA Surr Toluene-d8	111.	76. - 123.
VOA Surr, 4-BFB	89.	71. - 132.
VOA Surr, DBFM	113.	74. - 128.
BNA Surr-Nitrobenzene-d5	94.	34. - 107.
BNA Surr-2-Fluorobiphenyl	100. #	40. - 96.
BNA Surr-Terphenyl-d14	85.	26. - 106.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113373
Sample ID: 11069
Project: 845335

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113374
Sample ID: TB-6
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 1.0	ug/L	1.0	1	7/24/03	14:33	C.Reinbold	8260B	2905
Ethylbenzene	< 1.0	ug/L	1.0	1	7/24/03	14:33	C.Reinbold	8260B	2905
Toluene	< 1.0	ug/L	1.0	1	7/24/03	14:33	C.Reinbold	8260B	2905
Xylenes (Total)	< 1.0	ug/L	1.0	1	7/24/03	14:33	C.Reinbold	8260B	2905
Methyl-t-butyl ether	< 1.0	ug/L	1.0	1	7/24/03	14:33	C.Reinbold	8260B	2905

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	113.	70. - 133.
VOA Surr Toluene-d8	112.	76. - 123.
VOA Surr. 4-BFB	89.	71. - 132.
VOA Surr. DBFM	113.	74. - 128.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113375
Sample ID: 10066
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 8:22
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 59.6	mg/kg	59.6	10	7/26/03	10:05	L. Watson	8015B	4948
TPH (Gasoline Range)	21.9	mg/kg	5.92	1	7/30/03	16:38	J. Redmond	8015B	801
TPH (Diesel Range)	205.	mg/kg	59.6	10	7/26/03	10:05	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Anthracene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Chrysene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Fluorene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Phenanthrene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
Pyrene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00391	mg/kg	0.00391	1	7/30/03	13:48	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113375
Sample ID: 10066
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0040	mg/kg	0.0018	1	7/27/03	5:19	J. Yun	8260B	3924
Ethylbenzene	0.0026	mg/kg	0.0018	1	7/27/03	5:19	J. Yun	8260B	3924
Toluene	0.0024	mg/kg	0.0018	1	7/27/03	5:19	J. Yun	8260B	3924
Xylenes (Total)	0.0104	mg/kg	0.0018	1	7/27/03	5:19	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/27/03	5:19	J. Yun	8260B	3924
METALS									
Lead	10.2	mg/kg	1.14	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.5	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.8 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.68 g	5.0 ml	7/22/03	8:22	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	170. #	65. - 119.
VOA Surr 1,2-DCA-d4	104.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr, 4-BFB	338. #	60. - 141.
VOA Surr, DBFM	98.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113375
Sample ID: 10066
Project: 845335
Page 3

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	479. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	83.	45. - 94.
BNA Surr-Terphenyl-d14	81.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
BNA surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix. The MS/MSD recoveries could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113376
Sample ID: 10061
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 9:48
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.01	mg/kg	6.01	1	7/25/03	20:01	L. Watson	8015B	4948
TPH (Gasoline Range)	< 6.11	mg/kg	6.11	1	7/30/03	17:15	J. Redmond	8015B	801
TPH (Diesel Range)	26.0	mg/kg	6.01	1	7/25/03	20:01	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Anthracene	0.00484	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	0.0137	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	0.0161	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	0.0129	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	0.0125	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	0.0133	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Chrysene	0.0161	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Fluoranthene	0.0306	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Fluorene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	0.0133	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Phenanthrene	0.0133	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
Pyrene	0.0242	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:22	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113376
Sample ID: 10061
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0079	mg/kg	0.0018	1	7/27/03	5:50	J. Yun	8260B	3924
Ethylbenzene	0.0010 J	mg/kg	0.0018	1	7/27/03	5:50	J. Yun	8260B	3924
Toluene	0.0010 J	mg/kg	0.0018	1	7/27/03	5:50	J. Yun	8260B	3924
Xylenes (Total)	0.0099	mg/kg	0.0018	1	7/27/03	5:50	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/27/03	5:50	J. Yun	8260B	3924
METALS									
Lead	29.2	mg/kg	1.17	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.9	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	25.4 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.52 g	5.0 ml	7/22/03	9:48	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	65. - 119.
EPH surr-o-Terphenyl	59.	53. - 123.
VOA Surr 1,2-DCA-d4	92.	58. - 139.
VOA Surr Toluene-d8	104.	71. - 127.
VOA Surr, 4-BFB	108.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113376
Sample ID: 10061
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	90.	67. - 126.
BNA Surr-Nitrobenzene-d5	82.	44. - 99.
BNA Surr-2-Fluorobiphenyl	81.	45. - 94.
BNA Surr-Terphenyl-d14	83.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113377
Sample ID: 10062
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 10:05
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.19	mg/kg	6.19	1	7/25/03	20:02	L. Watson	8015B	4948
TPH (Gasoline Range)	< 6.11	mg/kg	6.11	1	7/30/03	17:52	J. Redmond	8015B	801
TPH (Diesel Range)	8.07	mg/kg	6.19	1	7/25/03	20:02	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Anthracene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Chrysene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Fluorene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Phenanthrene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
Pyrene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00403	mg/kg	0.00403	1	7/30/03	14:56	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113377
Sample ID: 10062
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0043	mg/kg	0.0018	1	7/27/03	6:22	J. Yun	8260B	3924
Ethylbenzene	< 0.0018	mg/kg	0.0018	1	7/27/03	6:22	J. Yun	8260B	3924
Toluene	0.0010 J	mg/kg	0.0018	1	7/27/03	6:22	J. Yun	8260B	3924
Xylenes (Total)	0.0015 J	mg/kg	0.0018	1	7/27/03	6:22	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0018	mg/kg	0.0018	1	7/27/03	6:22	J. Yun	8260B	3924
METALS									
Lead	11.9	mg/kg	1.22	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.8	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.7 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.56 g	5.0 ml	7/22/03	10:05	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	105.	65. - 119.
EPH surr-o-Terphenyl	69.	53. - 123.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	103.	71. - 127.
VOA Surr, 4-BFB	98.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113377
Sample ID: 10062
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	96.	67. - 126.
BNA Surr-Nitrobenzene-d5	86.	44. - 99.
BNA Surr-2-Fluorobiphenyl	84.	45. - 94.
BNA Surr-Terphenyl-d14	79.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113378
Sample ID: 10067
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 10:35
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.28	mg/kg	6.28	1	7/25/03	20:39	L. Watson	8015B	4948
TPH (Gasoline Range)	< 6.33	mg/kg	6.33	1	7/30/03	18:28	J. Redmond	8015B	801
TPH (Diesel Range)	8.84	mg/kg	6.28	1	7/25/03	20:39	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Anthracene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Chrysene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Fluorene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Phenanthrene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
Pyrene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00418	mg/kg	0.00418	1	7/30/03	15:30	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113378
Sample ID: 10067
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/27/03	6:54	J. Yun	8260B	3924
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/27/03	6:54	J. Yun	8260B	3924
Toluene	< 0.0019	mg/kg	0.0019	1	7/27/03	6:54	J. Yun	8260B	3924
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/27/03	6:54	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/27/03	6:54	J. Yun	8260B	3924
METALS									
Lead	14.6	mg/kg	1.22	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.0	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	25.2 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.64 g	5.0 ml	7/22/03	10:35	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	65. - 119.
EPH surr-o-Terphenyl	79.	53. - 123.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr, 4-BFB	96.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113378
Sample ID: 10067
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	98.	67. - 126.
BNA Surr-Nitrobenzene-d5	79.	44. - 99.
BNA Surr-2-Fluorobiphenyl	76.	45. - 94.
BNA Surr-Terphenyl-d14	78.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113379
Sample ID: 10068
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 10:42
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 125.	mg/kg	***	20	7/26/03	10:23	L. Watson	8015B	4948
TPH (Gasoline Range)	< 6.19	mg/kg	6.19	1	7/30/03	19:05	J. Redmond	8015B	801
TPH (Diesel Range)	328.	mg/kg	125.	20	7/26/03	10:23	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Anthracene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Chrysene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Fluorene	0.00939	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Phenanthrene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
Pyrene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00408	mg/kg	0.00408	1	7/30/03	16:04	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113379
Sample ID: 10068
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0019	mg/kg	0.0019	1	7/27/03	7:25	J. Yun	8260B	3924
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/27/03	7:25	J. Yun	8260B	3924
Toluene	< 0.0019	mg/kg	0.0019	1	7/27/03	7:25	J. Yun	8260B	3924
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	7/27/03	7:25	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/27/03	7:25	J. Yun	8260B	3924
METALS									
Lead	15.6	mg/kg	1.20	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.8	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.8 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.73 g	5.0 ml	7/22/03	10:42	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	104.	65. - 119.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	101.	71. - 127.
VOA Surr, 4-BFB	102.	60. - 141.
VOA Surr, DBFM	97.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113379
Sample ID: 10068
Project: 845335

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	109. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	86.	45. - 94.
BNA Surr-Terphenyl-d14	85.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113380
Sample ID: 10069
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 13:50
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 295.	mg/kg	295.	50	7/26/03	10:42	L. Watson	8015B	4948
TPH (Gasoline Range)	51.8	mg/kg	5.82	1	7/30/03	19:41	J. Redmond	8015B	801
TPH (Diesel Range)	615.	mg/kg	295.	50	7/26/03	10:42	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Anthracene	0.0115	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Chrysene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Fluorene	0.0787	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Naphthalene	0.00730	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Phenanthrene	0.0603	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
Pyrene	< 0.00384	mg/kg	0.00384	1	7/30/03	16:38	D. Harris	8270C-SIM	8141
1-Methylnapthalene	0.596	mg/kg	0.00768	2	7/30/03	18:55	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113380
Sample ID: 10069
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0037	mg/kg	0.0021	1	7/27/03	7:57	J. Yun	8260B	3924
Ethylbenzene	0.0019 J	mg/kg	0.0021	1	7/27/03	7:57	J. Yun	8260B	3924
Toluene	0.0019 J	mg/kg	0.0021	1	7/27/03	7:57	J. Yun	8260B	3924
Xylenes (Total)	0.0087	mg/kg	0.0021	1	7/27/03	7:57	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0021	mg/kg	0.0021	1	7/27/03	7:57	J. Yun	8260B	3924
METALS									
Lead	7.94	mg/kg	1.13	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.9	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.7 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	5.71 g	5.0 ml	7/22/03	13:50	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
VOA Surr 1,2-DCA-d4	97.	58. - 139.
VOA Surr Toluene-d8	105.	71. - 127.
VOA Surr, 4-BFB	227. #	60. - 141.
VOA Surr, DBFM	98.	67. - 126.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113380
Sample ID: 10069
Project: 845335

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	1020 #	44. - 99.
BNA Surr-2-Fluorobiphenyl	98. #	45. - 94.
BNA Surr-Terphenyl-d14	91.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
8260 surrogates outside QC range due to sample matrix.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.
TRPH-d The surrogate recovery could not be determined due to the sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A113381
Sample ID: 12062
Sample Type: Soil
Site ID:

Date Collected: 7/22/03
Time Collected: 7:00
Date Received: 7/23/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 6.50	mg/kg	6.50	1	7/25/03	21:35	L. Watson	8015B	4948
TPH (Gasoline Range)	< 6.39	mg/kg	6.39	1	7/30/03	20:18	J. Redmond	8015B	801
TPH (Diesel Range)	9.72	mg/kg	6.50	1	7/25/03	21:35	L. Watson	8015B	4948
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Acenaphthylene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Anthracene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Benzo(a)anthracene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Benzo(a)pyrene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Benzo(b)fluoranthene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Benzo(g,h,i)perylene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Benzo(k)fluoranthene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Chrysene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Dibenz(a,h)anthracene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Fluoranthene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Fluorene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Indeno(1,2,3-cd)pyrene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
2-Methylnaphthalene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Naphthalene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Phenanthrene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
Pyrene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141
1-Methylnapthalene	< 0.00422	mg/kg	0.00422	1	7/30/03	17:13	D. Harris	8270C-SIM	8141

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113381
Sample ID: 12062
Project: 845335

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0042	mg/kg	0.0019	1	7/27/03	8:29	J. Yun	8260B	3924
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	7/27/03	8:29	J. Yun	8260B	3924
Toluene	0.0010 J	mg/kg	0.0019	1	7/27/03	8:29	J. Yun	8260B	3924
Xylenes (Total)	0.0013 J	mg/kg	0.0019	1	7/27/03	8:29	J. Yun	8260B	3924
Methyl-t-butyl ether	< 0.0019	mg/kg	0.0019	1	7/27/03	8:29	J. Yun	8260B	3924
METALS									
Lead	15.2	mg/kg	1.23	1	7/24/03	14:12	C.Johnson	6010B	9728
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.2	%			7/29/03	14:31	M. Ricke	CLP	804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.3 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.6 gm	1.0 ml	7/24/03		M. Ricke	3550
Volatile Organics	6.57 g	5.0 ml	7/22/03	7:00	C. Bailey	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	105.	65. - 119.
EPH surr-o-Terphenyl	73.	53. - 123.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	101.	71. - 127.
VOA Surr, 4-BFB	97.	60. - 141.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A113381
Sample ID: 12062
Project: 845335
Page 3

Surrogate	% Recovery	Target Range
VOA Surr, DBFM	92.	67. - 126.
BNA Surr-Nitrobenzene-d5	80.	44. - 99.
BNA Surr-2-Fluorobiphenyl	82.	45. - 94.
BNA Surr-Terphenyl-d14	79.	53. - 104.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
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Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	< 0.100	0.728	1.00	73	59. - 125.	2721	blank
TPH (Gasoline Range)	mg/kg	44.5	51.8	10.0	73	70. - 134.	801	03-A113380
TPH (Gasoline Range)	mg/l	< 0.0740	1.14	1.00	114	56. - 134.	793	blank
TPH (Diesel Range)	mg/l	< 0.100	0.728	1.00	73	35. - 130.	2721	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				114	69 - 129	793	
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0577	0.0500	115	68 - 136	2905	BLANK
Benzene	mg/l	< 0.0005	0.0577	0.0500	115	68 - 136	3258	blank
Benzene	mg/kg	< 0.0015	0.0344	0.0500	69	53 - 140	3924	03-A113379
Toluene	mg/l	< 0.0006	0.0505	0.0500	101	73 - 133	2905	BLANK
Toluene	mg/l	< 0.0006	0.0505	0.0500	101	73 - 133	3258	blank
Toluene	mg/kg	< 0.0015	0.0340	0.0500	68	47 - 142	3924	03-A113379
VOA Surr 1,2-DCA-d4	% Rec				92	58 - 139	3924	
VOA Surr Toluene-d8	% Rec				101	71 - 127	3924	
VOA Surr, 4-BFB	% Rec				99	60 - 141	3924	
VOA Surr, DBFM	% Rec				97	67 - 126	3924	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00085	0.00100	85	28 - 106	4041	BLANK
Pyrene	mg/l	< 0.00010	0.00088	0.00100	88	35 - 118	4041	BLANK
BNA Surr-Nitrobenzene-d5	% Rec				63	34 - 107	4041	
BNA Surr-2-Fluorobiphenyl	% Rec				75	40 - 96	4041	
BNA Surr-Terphenyl-d14	% Rec				70	26 - 106	4041	

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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METALS								
Lead	mg/l	< 0.0030	0.0580	0.0500	116	80 - 120	8083	03-A113373
Lead	mg/kg	12.6	189.	200.	88	80 - 120	9728	03-A113379

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/l	0.728	0.804	9.92	26.	2721
TPH (Gasoline Range)	mg/kg	51.8	41.0	23.28	24.	801
TPH (Gasoline Range)	mg/l	1.14	1.15	0.87	24.	793
TPH (Diesel Range)	mg/l	0.728	0.804	9.92	41.	2721
BTEX/GRO Surr., a,a,a-TFT	% Recovery		114.			793
VOA PARAMETERS						
Benzene	mg/l	0.0577	0.0587	1.72	22.	2905
Benzene	mg/l	0.0577	0.0587	1.72	22.	3258
Benzene	mg/kg	0.0344	0.0423	20.60	34.	3924
Toluene	mg/l	0.0505	0.0563	10.86	22.	2905
Toluene	mg/l	0.0505	0.0563	10.86	22.	3258
Toluene	mg/kg	0.0340	0.0437	24.97	39.	3924
VOA Surr 1,2-DCA-d4	% Rec		119.			2905
VOA Surr 1,2-DCA-d4	% Rec		119.			3258
VOA Surr 1,2-DCA-d4	% Rec		90.			3924
VOA Surr Toluene-d8	% Rec		108.			2905
VOA Surr Toluene-d8	% Rec		108.			3258
VOA Surr Toluene-d8	% Rec		103.			3924
VOA Surr, 4-BFB	% Rec		90.			2905
VOA Surr, 4-BFB	% Rec		90.			3258
VOA Surr, 4-BFB	% Rec		140.			3924
VOA Surr, DBFM	% Rec		117.			2905
VOA Surr, DBFM	% Rec		117.			3258
VOA Surr, DBFM	% Rec		94.			3924

Project QC continued . . .

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EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00085	0.00073	15.19	33.	4041
Pyrene	mg/l	0.00088	0.00076	14.63	32.	4041
BNA Surr-Nitrobenzene-d5	% Rec		53.			4041
BNA Surr-Nitrobenzene-d5	% Rec		61.			8141
BNA Surr-2-Fluorobiphenyl	% Rec		64.			4041
BNA Surr-2-Fluorobiphenyl	% Rec		85.			8141
BNA Surr-Terphenyl-d14	% Rec		55.			4041
BNA Surr-Terphenyl-d14	% Rec		87.			8141

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	10.0	9.04	90	80 - 127	801
TPH (Gasoline Range)	mg/l	1.00	0.995	100	72 - 125	793
BTEX/GRO Surr., a,a,a-TFT	% Recovery			121	69 - 129	793
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	40.0	100	30 - 125	4948
TRPH ORO (C24-C40)	mg/l	1.00	0.794	79	59 - 125	2721
TPH (Diesel Range)	mg/l	1.00	0.794	79	35 - 130	2721
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0544	109	78 - 125	3258
Benzene	mg/l	0.0500	0.0495	99	78 - 125	2905
Benzene	mg/kg	0.0500	0.0466	93	75 - 127	3924
Ethylbenzene	mg/l	0.0500	0.0551	110	79 - 125	3258
Ethylbenzene	mg/l	0.0500	0.0514	103	79 - 125	2905
Ethylbenzene	mg/kg	0.0500	0.0451	90	69 - 128	3924
Toluene	mg/l	0.0500	0.0552	110	79 - 125	3258
Toluene	mg/l	0.0500	0.0513	103	79 - 125	2905
Toluene	mg/kg	0.0500	0.0467	93	72 - 128	3924
Xylenes (Total)	mg/l	0.150	0.187	125	78 - 127	3258

Project QC continued . . .

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Xylenes (Total)	mg/l	0.150	0.152	101	78 - 127	2905
Xylenes (Total)	mg/kg	0.150	0.134	89	69 - 128	3924
Methyl-t-butyl ether	mg/l	0.0500	0.0577	115	71 - 135	3258
Methyl-t-butyl ether	mg/l	0.0500	0.0530	106	71 - 135	2905
Methyl-t-butyl ether	mg/kg	0.0500	0.0481	96	58 - 142	3924
VOA Surr 1,2-DCA-d4	% Rec			118	70 - 133	3258
VOA Surr 1,2-DCA-d4	% Rec			115	70 - 133	2905
VOA Surr 1,2-DCA-d4	% Rec			88	58 - 139	3924
VOA Surr Toluene-d8	% Rec			112	76 - 123	3258
VOA Surr Toluene-d8	% Rec			97	76 - 123	2905
VOA Surr Toluene-d8	% Rec			100	71 - 127	3924
VOA Surr, 4-BFB	% Rec			90	71 - 132	3258
VOA Surr, 4-BFB	% Rec			90	71 - 132	2905
VOA Surr, 4-BFB	% Rec			102	60 - 141	3924
VOA Surr, DBFM	% Rec			115	74 - 128	3258
VOA Surr, DBFM	% Rec			114	74 - 128	2905
VOA Surr, DBFM	% Rec			100	67 - 126	3924
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00105	105	28 - 106	4041
Acenaphthene	mg/kg	0.0330	0.0307	93	26 - 106	8141
Acenaphthylene	mg/l	0.00100	0.00087	87	26 - 106	4041
Acenaphthylene	mg/kg	0.0330	0.0284	86	23 - 113	8141
Anthracene	mg/l	0.00100	0.00098	98	30 - 116	4041
Anthracene	mg/kg	0.0330	0.0314	95	33 - 108	8141
Benzo(a)anthracene	mg/l	0.00100	0.00092	92	38 - 128	4041
Benzo(a)anthracene	mg/kg	0.0330	0.0320	97	47 - 119	8141
Benzo(a)pyrene	mg/l	0.00100	0.00087	87	34 - 117	4041
Benzo(a)pyrene	mg/kg	0.0330	0.0284	86	37 - 106	8141
Benzo(b)fluoranthene	mg/l	0.00100	0.00089	89	37 - 132	4041
Benzo(b)fluoranthene	mg/kg	0.0330	0.0277	84	43 - 121	8141
Benzo(g,h,i)perylene	mg/l	0.00100	0.00091	91	28 - 122	4041

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0280	85	23 - 124	8141
Benzo(k)fluoranthene	mg/l	0.00100	0.00106	106	35 - 128	4041
Benzo(k)fluoranthene	mg/kg	0.0330	0.0317	96	40 - 112	8141
Chrysene	mg/l	0.00100	0.00114	114	42 - 126	4041
Chrysene	mg/kg	0.0330	0.0343	104	48 - 117	8141
Dibenz(a,h)anthracene	mg/l	0.00100	0.00081	81	35 - 124	4041
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0248	75	30 - 129	8141
Fluoranthene	mg/l	0.00100	0.00095	95	35 - 125	4041
Fluoranthene	mg/kg	0.0330	0.0330	100	40 - 119	8141
Fluorene	mg/l	0.00100	0.00106	106	30 - 112	4041
Fluorene	mg/kg	0.0330	0.0330	100	29 - 112	8141
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00083	83	34 - 121	4041
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0264	80	30 - 125	8141
2-Methylnaphthalene	mg/l	0.00100	0.00093	93	31 - 108	4041
2-Methylnaphthalene	mg/kg	0.0330	0.0294	89	31 - 115	8141
Naphthalene	mg/l	0.00100	0.00096	96	9 - 120	4041
Naphthalene	mg/kg	0.0330	0.0274	83	23 - 105	8141
Phenanthrene	mg/l	0.00100	0.00107	107	34 - 116	4041
Phenanthrene	mg/kg	0.0330	0.0310	94	36 - 107	8141
Pyrene	mg/l	0.00100	0.00108	108	35 - 118	4041
Pyrene	mg/kg	0.0330	0.0356	108	38 - 113	8141
1-Methylnaphthalene	mg/l	0.00100	0.00096	96	31 - 112	4041
1-Methylnapthalene	mg/kg	0.0330	0.0294	89	35 - 113	8141
BNA Surr-Nitrobenzene-d5	% Rec			82	34 - 107	4041
BNA Surr-2-Fluorobiphenyl	% Rec			97	40 - 96	4041
BNA Surr-Terphenyl-d14	% Rec			85	26 - 106	4041

Project QC continued . . .

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METALS						
Lead	mg/l	0.0500	0.0530	106	80 - 120	8083
Lead	mg/kg	200.	200.	100	80 - 120	9728

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/l	< 0.0030	< 0.0030	N/A	15.	8083	03-A113373
Lead	mg/kg	12.6	10.1	22.03 ♦	15.	9728	03-A113379
pH	pH Units	7.20	7.20	0.00	15.	797	03-A113373

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	4948	7/25/03	18:27
TRPH ORO (C24-C40)	< 0.100	mg/l	2721	7/25/03	6:42
TPH (Gasoline Range)	< 5.00	mg/kg	801	7/30/03	15:09
TPH (Diesel Range)	< 10.0	mg/kg	4948	7/25/03	18:27
TPH (Gasoline Range)	< 0.0740	mg/l	793	7/31/03	19:54
TPH (Diesel Range)	< 0.100	mg/l	2721	7/25/03	6:42
UST surr-Trifluorotoluene	104.	% Recovery	801	7/30/03	15:09
EPH surr-o-Terphenyl	81.	% Recovery	4948	7/25/03	18:27
BTEX/GRO Surr., a,a,a-TFT	95.	% Recovery	793	7/31/03	19:54

Project QC continued . . .

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VOA PARAMETERS					
Benzene	< 0.0005	mg/l	3258	7/23/03	20:51
Benzene	< 0.0005	mg/l	2905	7/24/03	9:55
Benzene	< 0.0003	mg/kg	3924	7/27/03	4:47
Ethylbenzene	< 0.0003	mg/l	3258	7/23/03	20:51
Ethylbenzene	< 0.0003	mg/l	2905	7/24/03	9:55
Ethylbenzene	< 0.0005	mg/kg	3924	7/27/03	4:47
Toluene	< 0.0006	mg/l	3258	7/23/03	20:51
Toluene	< 0.0006	mg/l	2905	7/24/03	9:55
Toluene	< 0.0008	mg/kg	3924	7/27/03	4:47
Xylenes (Total)	< 0.0009	mg/l	3258	7/23/03	20:51
Xylenes (Total)	< 0.0009	mg/l	2905	7/24/03	9:55
Xylenes (Total)	< 0.0013	mg/kg	3924	7/27/03	4:47
Methyl-t-butyl ether	< 0.0005	mg/l	3258	7/23/03	20:51
Methyl-t-butyl ether	< 0.0005	mg/l	2905	7/24/03	9:55
Methyl-t-butyl ether	< 0.0006	mg/kg	3924	7/27/03	4:47
VOA Surr 1,2-DCA-d4	118.	% Rec	3258	7/23/03	20:51
VOA Surr 1,2-DCA-d4	115.	% Rec	2905	7/24/03	9:55
VOA Surr 1,2-DCA-d4	100.	% Rec	3924	7/27/03	4:47
VOA Surr Toluene-d8	110.	% Rec	3258	7/23/03	20:51
VOA Surr Toluene-d8	98.	% Rec	2905	7/24/03	9:55
VOA Surr Toluene-d8	102.	% Rec	3924	7/27/03	4:47
VOA Surr, 4-BFB	90.	% Rec	3258	7/23/03	20:51
VOA Surr, 4-BFB	89.	% Rec	2905	7/24/03	9:55
VOA Surr, 4-BFB	99.	% Rec	3924	7/27/03	4:47
VOA Surr, DBFM	114.	% Rec	3258	7/23/03	20:51
VOA Surr, DBFM	113.	% Rec	2905	7/24/03	9:55
VOA Surr, DBFM	99.	% Rec	3924	7/27/03	4:47
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	4041	7/28/03	13:35
Acenaphthene	< 0.00330	mg/kg	8141	7/30/03	11:34
Acenaphthylene	< 0.00010	mg/l	4041	7/28/03	13:35
Acenaphthylene	< 0.00330	mg/kg	8141	7/30/03	11:34
Anthracene	< 0.00010	mg/l	4041	7/28/03	13:35
Anthracene	< 0.00330	mg/kg	8141	7/30/03	11:34
Benzo(a)anthracene	< 0.00010	mg/l	4041	7/28/03	13:35

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(a)anthracene	< 0.00330	mg/kg	8141	7/30/03	11:34
Benzo(a)pyrene	< 0.00010	mg/l	4041	7/28/03	13:35
Benzo(a)pyrene	< 0.00330	mg/kg	8141	7/30/03	11:34
Benzo(b)fluoranthene	< 0.00010	mg/l	4041	7/28/03	13:35
Benzo(b)fluoranthene	< 0.00330	mg/kg	8141	7/30/03	11:34
Benzo(g,h,i)perylene	< 0.00010	mg/l	4041	7/28/03	13:35
Benzo(g,h,i)perylene	< 0.00330	mg/kg	8141	7/30/03	11:34
Benzo(k)fluoranthene	< 0.00010	mg/l	4041	7/28/03	13:35
Benzo(k)fluoranthene	< 0.00330	mg/kg	8141	7/30/03	11:34
Chrysene	< 0.00010	mg/l	4041	7/28/03	13:35
Chrysene	< 0.00330	mg/kg	8141	7/30/03	11:34
Dibenz(a,h)anthracene	< 0.00010	mg/l	4041	7/28/03	13:35
Dibenz(a,h)anthracene	< 0.00330	mg/kg	8141	7/30/03	11:34
Fluoranthene	< 0.00010	mg/l	4041	7/28/03	13:35
Fluoranthene	< 0.00330	mg/kg	8141	7/30/03	11:34
Fluorene	< 0.00010	mg/l	4041	7/28/03	13:35
Fluorene	< 0.00330	mg/kg	8141	7/30/03	11:34
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	4041	7/28/03	13:35
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	8141	7/30/03	11:34
2-Methylnaphthalene	< 0.00010	mg/l	4041	7/28/03	13:35
2-Methylnaphthalene	< 0.00330	mg/kg	8141	7/30/03	11:34
Naphthalene	< 0.00010	mg/l	4041	7/28/03	13:35
Naphthalene	< 0.00330	mg/kg	8141	7/30/03	11:34
Phenanthrene	< 0.00010	mg/l	4041	7/28/03	13:35
Phenanthrene	< 0.00330	mg/kg	8141	7/30/03	11:34
Pyrene	< 0.00010	mg/l	4041	7/28/03	13:35
Pyrene	< 0.00330	mg/kg	8141	7/30/03	11:34
1-Methylnaphthalene	< 0.00010	mg/l	4041	7/28/03	13:35
1-Methylnapthalene	< 0.00330	mg/kg	8141	7/30/03	11:34

Project QC continued . . .

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BNA Surr-Nitrobenzene-d5	73.	% Rec	4041	7/28/03	13:35
BNA Surr-Nitrobenzene-d5	75.	% Rec	8141	7/30/03	11:34
BNA Surr-2-Fluorobiphenyl	86.	% Rec	4041	7/28/03	13:35
BNA Surr-2-Fluorobiphenyl	85.	% Rec	8141	7/30/03	11:34
BNA Surr-Terphenyl-d14	81.	% Rec	4041	7/28/03	13:35
BNA Surr-Terphenyl-d14	76.	% Rec	8141	7/30/03	11:34
METALS					
Lead	< 0.0029	mg/l	8083	7/31/03	10:03
Lead	< 0.52	mg/kg	9728	7/24/03	14:12

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 340285

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM **BC#** 340285

Client: Pennzoil- Quaker State

Cooler Received On: 7/23/03 And Opened On: 7/23/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 4.0 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2, Front / Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

340285

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

FORM P36
(3_6/1/200

PENNZOIL-QUAKER STATE COMPANY

340285

Client Code = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 2 88248

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Crieghton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764666, ~~838199764622~~ ~~44~~
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: ~~2~~ REC 1

TURNAROUND TIME: ☒ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B	BTEX, MTBE	6010 Lead	8270C SIMS PAH	TPH-GRO 8015B	TPH-DRO/ORO/KRO 8015B	TPH-GRO 8021B				COMMENTS
10066	7-22-03/0822	Soil	6	3-VOA, 1-4oz 2-4ozGl Pl	113375	X	X	X	X	X						* See attached Yellow
10061	/0948	Soil	6		76	X	X	X	X	X						Sheet regarding analyses
10062	/1005	Soil	6		77	X	X	X	X	X						(10% of analyses will be
10067	/1035	Soil	6		78	X	X	X	X	X						Level III Data Packages)
10068	/1042	Soil	6		79	X	X	X	X	X						
10068 MS	/1042	Soil	6			X	X	X	X	X						
10068 MSD	/1042	Soil	6			X	X	X	X	X						
10069	/1350	Soil	6		80	X	X	X	X	X						
11069	/1430	H_2O	9	6-VOA, 1-250mL 1-HCl AL, 1-AL	113373	X	X	X		X	X					
12062	/0700	Soil	6	3-VOA, 1-4oz 2-4ozGl Pl	113381	X	X	X	X	X						

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
[signature]	7-22-03			Kirk E. Curry
COMPANY: Shaw Environmental	TIME: 1700	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

FORM P36
(3_6/1/200

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

PENNZOIL-QUAKER STATE COMPANY

340285

Client Code=3277

CHAIN OF CUSTODY RECORD

Page 2 of 2

88251

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan Mc Quillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Crieghton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764666, ~~[illegible]~~ REC
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: ~~2~~ REC 1

TURNAROUND TIME

☒ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B BTEX, MTBE									COMMENTS
TB-6	LAB	H_2O	2	2-VOA	113374	X									

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-22-03			Kirk E. Curry
COMPANY: Shaw Environmental, Inc.	TIME: 1700	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 8/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845335.
Laboratory Project Number: 340447.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
11078	03-A114245	7/23/03
TB-7	03-A114246	
10078	03-A114247	7/23/03
10021	03-A114248	7/23/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glenn L Norton Report Date: 8/ 7/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114245
Sample ID: 11078
Sample Type: Ground water
Site ID:

Date Collected: 7/23/03
Time Collected: 13:50
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	7/28/03	1:39	M.Jarrett	8015B/3510	4817
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	7/31/03	21:39	D.Ramey	8015B	1905
TPH (Diesel Range)	0.118	mg/l	0.100	1	7/28/03	1:39	M.Jarrett	8015B/3510	4817
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/29/03	14:38	C.Reinbold	8260B	1902
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/29/03	14:38	C.Reinbold	8260B	1902
Toluene	< 0.0010	mg/l	0.0010	1	7/29/03	14:38	C.Reinbold	8260B	1902
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/29/03	14:38	C.Reinbold	8260B	1902
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/29/03	14:38	C.Reinbold	8260B	1902
METALS									
Lead	< 0.0030	mg/l	0.0030	1	7/31/03	10:03	C. Martin	6010B	8083
MISCELLANEOUS CHEMISTRY									
pH	6.8				7/26/03	9:30	S. Self	9040/150.1	1907

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	7/25/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A114245
Sample ID: 11078
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/25/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	77.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 129.
VOA Surr 1,2-DCA-d4	131.	70. - 133.
VOA Surr Toluene-d8	117.	76. - 123.
VOA Surr, 4-BFB	89.	71. - 132.
VOA Surr, DBFM	127.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114246
Sample ID: TB-7
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	7/29/03	15:08	C.Reinbold	8260B	1902
Ethylbenzene	< 0.0010	mg/l	0.0010	1	7/29/03	15:08	C.Reinbold	8260B	1902
Toluene	< 0.0010	mg/l	0.0010	1	7/29/03	15:08	C.Reinbold	8260B	1902
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	7/29/03	15:08	C.Reinbold	8260B	1902
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	7/29/03	15:08	C.Reinbold	8260B	1902

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	131.	70. - 133.
VOA Surr Toluene-d8	118.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	126.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114247
Sample ID: 10078
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 13:03
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 5.74	mg/kg	5.74	1	7/26/03	17:20	M.Jarrett	8015B	4799
TPH (Gasoline Range)	6.37	mg/kg	5.74	1	7/31/03	0:22	J. Hunter	8015B	1913
TPH (Diesel Range)	28.7	mg/kg	5.74	1	7/26/03	17:20	M.Jarrett	8015B	4799
VOLATILE ORGANICS									
Benzene	0.0025	mg/kg	0.0018	1	8/ 5/03	18:01	J. Yun	8260B	3920
Ethylbenzene	0.0090	mg/kg	0.0018	1	8/ 5/03	18:01	J. Yun	8260B	3920
Toluene	0.0010 J	mg/kg	0.0018	1	8/ 5/03	18:01	J. Yun	8260B	3920
Xylenes (Total)	0.0195	mg/kg	0.0018	1	8/ 5/03	18:01	J. Yun	8260B	3920
Methyl-t-butyl ether	0.0022	mg/kg	0.0018	1	8/ 5/03	18:01	J. Yun	8260B	3920
METALS									
Lead	8.92	mg/kg	1.15	1	7/31/03	12:37	C. Martin	6010B	1910
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.1	%			7/29/03	15:00	M. Ricke	CLP	1918

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A114247
Sample ID: 10078
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
EPH/DRO	24.9 gm	1.0 ml	7/25/03		M. Ricke	3550
Volatile Organics	6.18 g	5.0 ml	7/23/03	13:03	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	92.	65. - 119.
EPH surr-o-Terphenyl	70.	53. - 123.
VOA Surr 1,2-DCA-d4	96.	58. - 139.
VOA Surr Toluene-d8	94.	71. - 127.
VOA Surr, 4-BFB	94.	60. - 141.
VOA Surr, DBFM	87.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
Trph-d ms/msds recovery could not be determined due to
sample matrix

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114248
Sample ID: 10021
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 17:45
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	55.0	mg/kg	5.61	1	7/26/03	17:39	M.Jarrett	8015B	4799
TPH (Gasoline Range)	< 5.61	mg/kg	5.61	1	7/31/03	8:18	J. Hunter	8015B	1913
TPH (Diesel Range)	34.6	mg/kg	5.61	1	7/26/03	17:39	M.Jarrett	8015B	4799
VOLATILE ORGANICS									
Acetone	0.0226 J	mg/kg	0.0476	1	8/ 5/03	18:31	J. Yun	8260B	3920
Benzene	0.0021	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
2-Butanone	< 0.0476	mg/kg	0.0476	1	8/ 5/03	18:31	J. Yun	8260B	3920
Carbon disulfide	< 0.00190	mg/kg	0.00190	1	8/ 5/03	18:31	J. Yun	8260B	3920
Carbon tetrachloride	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Chlorobenzene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
1,2-Dichlorobenzene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Ethylbenzene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Isobutyl alcohol	< 0.0112	mg/kg	0.00561	1	8/ 5/03	18:31	J. Yun	8260B	4678
4-Methyl-2-pentanone	< 0.00951	mg/kg	0.00951	1	8/ 5/03	18:31	J. Yun	8260B	3920
Methylene chloride	< 0.0047	mg/kg	0.0047	1	8/ 5/03	18:31	J. Yun	8260B	3920
Tetrachloroethene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Toluene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
1,1,1-Trichloroethane	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
1,1,2-Trichloroethane	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Trichloroethene	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Cyclohexanone	< 0.00561	mg/kg	0.00561	1	8/ 5/03	18:31	J. Yun	8260B	4678
Xylenes (Total)	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
Trichlorofluoromethane	< 0.0019	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920

Sample report continued . . .

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ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Laboratory Number: 03-A114248
Sample ID: 10021
Project: 845335
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Butanol	< 0.00951	mg/kg	0.00951	1	8/ 5/03	18:31	J. Yun	8260B	3920
Methyl-t-butyl ether	0.0017 J	mg/kg	0.0019	1	8/ 5/03	18:31	J. Yun	8260B	3920
VOLATILE ORGANICS by GC									
Methanol	< 11.2	mg/kg	11.2	1	7/30/03	18:38	Carmichael	8015	1915
2-Ethoxyethanol	< 22.4	mg/kg	22.4	1	7/30/03	18:38	Carmichael	8015	1915
METALS									
Cadmium	< 1.11	mg/kg	1.11	1	7/31/03	12:37	C. Martin	6010B	1910
Chromium	10.5	mg/kg	1.11	1	7/31/03	12:37	C. Martin	6010B	1910
Lead	7.36	mg/kg	1.11	1	7/31/03	12:37	C. Martin	6010B	1910
Chromium, hexavalent	3.14	mg/kg	2.24	2	7/30/03	20:21	S. Duncan	7196A	4794
Chromium, trivalent	7.34	mg/kg	2.24	2			Calculated	7196A	
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.1	%			7/29/03	15:00	M. Ricke	CLP	1918

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/29/03		M. Cauthen	SW3550
BNA's	30.0 gm	1.0 ml	7/26/03		M. Ricke	3550
EPH/DRO	25.3 gm	1.0 ml	7/25/03		M. Ricke	3550
Volatile Organics	5.90 g	5.0 ml	7/23/03	17:45	CHollingsw	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	99.	65. - 119.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A114248
Sample ID: 10021
Project: 845335

Surrogate	% Recovery	Target Range
EPH Surr-o-Terphenyl	68.	53. - 123.
VOA Surr 1,2-DCA-d4	95.	58. - 139.
VOA Surr Toluene-d8	93.	71. - 127.
VOA Surr, 4-BFB	93.	60. - 141.
VOA Surr, DBFM	84.	67. - 126.

LABORATORY COMMENTS:

ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
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Laboratory Receipt Date: 7/24/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	< 0.100	0.801	1.00	80	59. - 125.	4817	blank
TPH (Gasoline Range)	mg/kg	< 5.00	5.89	10.0	59#	70. - 134.	1913	03-A114248
TPH (Gasoline Range)	mg/l	< 0.0740	1.14	1.00	114	56. - 134.	1905	blank
TPH (Diesel Range)	mg/l	< 0.100	0.801	1.00	80	35. - 130.	4817	blank
BTRX/GRO Surr., a,a,a-TFT	% Recovery				114	69 - 129	1905	
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0610	0.0500	122	68 - 136	1902	blank
Benzene	mg/kg	< 0.0003	0.0514	0.0500	103	53 - 140	3920	blank
Chlorobenzene	mg/kg	< 0.0006	0.0458	0.0500	92	43 - 145	3920	blank
Toluene	mg/l	< 0.0006	0.0634	0.0500	127	73 - 133	1902	blank
Toluene	mg/kg	< 0.0008	0.0576	0.0500	115	47 - 142	3920	blank
Trichloroethene	mg/kg	< 0.0006	0.0500	0.0500	100	51 - 139	3920	blank
Tetrachloroethene	mg/kg	< 0.0005	0.0415	0.0500	83	42 - 144	3920	blank
VOA Surr 1,2-DCA-d4	% Rec				90	58 - 139	3920	
VOA Surr Toluene-d8	% Rec				94	71 - 127	3920	
VOA Surr, 4-BFB	% Rec				95	60 - 141	3920	
VOA Surr, DBFM	% Rec				86	67 - 126	3920	
METALS								
Lead	mg/l	< 0.0030	0.0580	0.0500	116	80 - 120	8083	03-A113373
Cadmium	mg/kg	< 0.99	193.	200.	96	80 - 120	1910	03-A114248
Chromium	mg/kg	9.34	207.	200.	99	80 - 120	1910	03-A114248
Lead	mg/kg	6.56	213.	200.	103	80 - 120	1910	03-A114248
Chromium, hexavalent	mg/kg	< 2.00	40.6	40.0	102	80 - 120	4794	03-A114248

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Methanol	mg/kg	< 10.0	38.3	50.0	77	40 - 140	1915	03-A114248
Methanol	mg/kg	< 10.0	36.4	50.0	73	40 - 140	1915	03-A114248
2-Ethoxyethanol	mg/kg	< 20.0	42.1	50.0	84	40 - 140	1915	03-A114248
2-Ethoxyethanol	mg/kg	< 20.0	49.7	50.0	99	40 - 140	1915	03-A114248

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/l	0.801	0.979	20.00	26.	4817
TPH (Gasoline Range)	mg/kg	5.89	4.90	18.35	24.	1913
TPH (Gasoline Range)	mg/l	1.14	1.15	0.87	24.	1905
TPH (Diesel Range)	mg/l	0.801	0.979	20.00	41.	4817
BTEX/GRO Surr., a,a,a-TFT	% Recovery		114.			1905
VOA PARAMETERS						
Benzene	mg/l	0.0610	0.0609	0.16	22.	1902
Benzene	mg/kg	0.0514	0.0481	6.63	34.	3920
Chlorobenzene	mg/kg	0.0458	0.0456	0.44	44.	3920
Toluene	mg/l	0.0634	0.0633	0.16	22.	1902
Toluene	mg/kg	0.0576	0.0506	12.94	39.	3920
Trichloroethene	mg/kg	0.0500	0.0477	4.71	38.	3920
Tetrachloroethene	mg/kg	0.0415	0.0420	1.20	41.	3920
VOA Surr 1,2-DCA-d4	% Rec		127.			1902
VOA Surr 1,2-DCA-d4	% Rec		87.			3920
VOA Surr Toluene-d8	% Rec		123.			1902
VOA Surr Toluene-d8	% Rec		95.			3920
VOA Surr, 4-BFB	% Rec		89.			1902
VOA Surr, 4-BFB	% Rec		96.			3920
VOA Surr, DBFM	% Rec		126.			1902
VOA Surr, DBFM	% Rec		83.			3920

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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METALS						
Chromium, hexavalent	mg/kg	40.6	40.4	0.49	20	4794
MISC PARAMETERS						
Methanol	mg/kg	38.3	36.4	5.09	50	1915
2-Ethoxyethanol	mg/kg	42.1	49.7	16.56	50	1915

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	10.0	8.42	84	80 - 127	1913
TPH (Diesel Range)	mg/kg	40.0	32.8	82	50 - 125	4799
TPH (Gasoline Range)	mg/l	1.00	0.995	100	72 - 125	1905
BTEX/GRO Surr., a,a,a-TFT	% Recovery			121	69 - 129	1905
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	32.8	82	30 - 125	4799
TRPH ORO (C24-C40)	mg/l	1.00	0.715	72	59 - 125	4817
TPH (Diesel Range)	mg/l	1.00	0.715	72	35 - 130	4817
VOA PARAMETERS						
Acetone	mg/kg	0.250	0.208	83	40 - 154	3920
Benzene	mg/l	0.0500	0.0528	106	78 - 125	1902
Benzene	mg/kg	0.0500	0.0382	76	75 - 127	3920
2-Butanone	mg/kg	0.250	0.185	74	56 - 149	3920
Carbon disulfide	mg/kg	0.0500	0.0408	82	59 - 138	3920
Carbon tetrachloride	mg/kg	0.0500	0.0411	82	61 - 134	3920
Chlorobenzene	mg/kg	0.0500	0.0453	91	74 - 125	3920
1,2-Dichlorobenzene	mg/kg	0.0500	0.0461	92	38 - 152	3920
Ethylbenzene	mg/l	0.0500	0.0553	111	79 - 125	1902
Ethylbenzene	mg/kg	0.0500	0.0450	90	69 - 128	3920
4-Methyl-2-pentanone	mg/kg	0.250	0.202	81	56 - 151	3920
Methylene chloride	mg/kg	0.0500	0.0368	74	58 - 137	3920
Tetrachloroethene	mg/kg	0.0500	0.0470	94	65 - 132	3920

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/l	0.0500	0.0561	112	79 - 125	1902
Toluene	mg/kg	0.0500	0.0437	87	72 - 128	3920
1,1,1-Trichloroethane	mg/kg	0.0500	0.0391	78	65 - 130	3920
1,1,2-Trichloroethane	mg/kg	0.0500	0.0434	87	72 - 133	3920
Trichloroethene	mg/kg	0.0500	0.0423	85	71 - 128	3920
Xylenes (Total)	mg/l	0.150	0.163	109	78 - 127	1902
Xylenes (Total)	mg/kg	0.150	0.135	90	69 - 128	3920
Trichlorofluoromethane	mg/kg	0.0500	0.0435	87	61 - 137	3920
n-Butanol	mg/kg	0.500	0.310	62	59 - 140	3920
Methyl-t-butyl ether	mg/l	0.0500	0.0547	109	71 - 135	1902
Methyl-t-butyl ether	mg/kg	0.0500	0.0384	77	58 - 142	3920
Methanol	mg/kg	50.0	42.1	84	72 - 124	1915
2-Ethoxyethanol	mg/kg	50.0	47.1	94	55 - 138	1915
VOA Surr 1,2-DCA-d4	% Rec			128	70 - 133	1902
VOA Surr 1,2-DCA-d4	% Rec			73	58 - 139	3920
VOA Surr Toluene-d8	% Rec			124	76 - 123	1902
VOA Surr Toluene-d8	% Rec			94	71 - 127	3920
VOA Surr, 4-BFB	% Rec			90	71 - 132	1902
VOA Surr, 4-BFB	% Rec			93	60 - 141	3920
VOA Surr, DBFM	% Rec			126	74 - 128	1902
VOA Surr, DBFM	% Rec			75	67 - 126	3920
METALS						
Lead	mg/l	0.0500	0.0530	106	80 - 120	8083
Cadmium	mg/kg	200.	200.	100	80 - 120	1910
Chromium	mg/kg	200.	208.	104	80 - 120	1910
Lead	mg/kg	200.	220.	110	80 - 120	1910
Chromium, hexavalent	mg/kg	40.0	37.2	93	80 - 120	4794

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/l	< 0.0030	< 0.0030	N/A	15.	8083	03-A113373
Cadmium	mg/kg	< 0.99	< 0.99	N/A	15.	1910	03-A114248
Chromium	mg/kg	9.34	11.9	24.11 #	15.	1910	03-A114248
Lead	mg/kg	6.56	7.13	8.33	15.	1910	03-A114248
Chromium, hexavalent	mg/kg	< 2.00	< 2.00	N/A	15.	4794	03-A115242
pH	pH Units	6.80	6.90	1.46	15.	1907	03-A114245

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	4799	7/26/03	16:02
TRPH ORO (C24-C40)	< 0.100	mg/l	4817	7/28/03	12:17
TPH (Gasoline Range)	< 5.00	mg/kg	1913	7/30/03	19:43
TPH (Diesel Range)	< 10.0	mg/kg	4799	7/26/03	16:02
TPH (Gasoline Range)	< 0.0740	mg/l	1905	7/31/03	19:54
TPH (Diesel Range)	< 0.100	mg/l	4817	7/28/03	12:17
UST surr-Trifluorotoluene	101.	% Recovery	1913	7/30/03	19:43
EPH surr-o-Terpheny1	71.	% Recovery	4799	7/26/03	16:02
BTEX/GRO Surr., a,a,a-TFT	95.	% Recovery	1905	7/31/03	19:54

Project QC continued . . .

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VOA PARAMETERS					
Acetone	< 0.0103	mg/kg	3920	8/ 5/03	17:30
Benzene	< 0.0005	mg/l	1902	7/29/03	13:09
Benzene	< 0.0003	mg/kg	3920	8/ 5/03	17:30
2-Butanone	< 0.0210	mg/kg	3920	8/ 5/03	17:30
Carbon disulfide	< 0.00040	mg/kg	3920	8/ 5/03	17:30
Carbon tetrachloride	< 0.0006	mg/kg	3920	8/ 5/03	17:30
Chlorobenzene	< 0.0006	mg/kg	3920	8/ 5/03	17:30
1,2-Dichlorobenzene	< 0.0004	mg/kg	3920	8/ 5/03	17:30
Ethylbenzene	< 0.0003	mg/l	1902	7/29/03	13:09
Ethylbenzene	< 0.0005	mg/kg	3920	8/ 5/03	17:30
4-Methyl-2-pentanone	< 0.00360	mg/kg	3920	8/ 5/03	17:30
Methylene chloride	< 0.0007	mg/kg	3920	8/ 5/03	17:30
Tetrachloroethene	< 0.0005	mg/kg	3920	8/ 5/03	17:30
Toluene	< 0.0006	mg/l	1902	7/29/03	13:09
Toluene	< 0.0008	mg/kg	3920	8/ 5/03	17:30
1,1,1-Trichloroethane	< 0.0008	mg/kg	3920	8/ 5/03	17:30
1,1,2-Trichloroethane	< 0.0005	mg/kg	3920	8/ 5/03	17:30
Trichloroethene	< 0.0006	mg/kg	3920	8/ 5/03	17:30
Xylenes (Total)	< 0.0009	mg/l	1902	7/29/03	13:09
Xylenes (Total)	< 0.0013	mg/kg	3920	8/ 5/03	17:30
Trichlorofluoromethane	< 0.0005	mg/kg	3920	8/ 5/03	17:30
n-Butanol	< 0.100	mg/kg	3920	8/ 5/03	17:30
Methyl-t-butyl ether	< 0.0005	mg/l	1902	7/29/03	13:09
Methyl-t-butyl ether	< 0.0006	mg/kg	3920	8/ 5/03	17:30
VOA Surr 1,2-DCA-d4	127.	% Rec	1902	7/29/03	13:09
VOA Surr 1,2-DCA-d4	94.	% Rec	3920	8/ 5/03	17:30
VOA Surr Toluene-d8	106.	% Rec	1902	7/29/03	13:09
VOA Surr Toluene-d8	94.	% Rec	3920	8/ 5/03	17:30
VOA Surr, 4-BFB	88.	% Rec	1902	7/29/03	13:09
VOA Surr, 4-BFB	92.	% Rec	3920	8/ 5/03	17:30
VOA Surr, DBFM	125.	% Rec	1902	7/29/03	13:09
VOA Surr, DBFM	86.	% Rec	3920	8/ 5/03	17:30

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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METALS					
Lead	< 0.0029	mg/l	8083	7/31/03	10:03
Cadmium	< 0.14	mg/kg	1910	7/31/03	12:37
Chromium	< 0.40	mg/kg	1910	7/31/03	12:37
Lead	< 0.52	mg/kg	1910	7/31/03	12:37
Chromium, hexavalent	< 2.00	mg/kg	4794	7/30/03	20:21
Methanol	< 10.0	mg/kg	1915	7/30/03	18:12
2-Ethoxyethanol	< 20.0	mg/kg	1915	7/30/03	18:12

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 340447

340447

Solvent Screen Parameters for
Waste Oil UST Investigations

Solvent Screen Constituents SOIL				
Analyte	MDL mg/kg	QL mg/kg	Table 60-3B Industrial De-Minimis mg/kg	Analytical Method
Isobutanol	NA	100	77,000	8260
N-butanol	NA	100	88,000	8260
Methanol	1	10	440,000	8015B
2-Ethoxyethanol	1.62	20	350,000	8015B
Acetone	10.29	50	6,200	8260
Carbon disulfide	0.43	2	1,200	8260
Carbon tetrachloride	0.61	2	5.3	8260
Chlorobenzene	0.63	2	540	8260
Cyclohexanone	NA	10	1,000,000	8260
Ethylbenzene	0.47	2	6,000	8260
Methylene chloride	0.66	10	210	8260
MEK	21	50	28,000	8260
MIBK	3.6	10	2,900	8260
Tetrachloroethene	0.46	2	190	8260
Toluene	0.77	2	2,000	8260
111-TCA	0.75	2	3,200	8260
Trichloroethene	0.59	2	61	8260
Xylenes	1.31	2	4,500	8260
112-TCA	0.52	2	19	8260
Benzene	0.33	2	15	8260
o-Cresol (2-Methylphenol)	0.04	0.333	44,000	8270C
3-Methylphenol (m-cresol)	0.04	0.333	44,000	8270C
p-cresol (4-Methylphenol)	0.04	0.333	4,400	8270C
12-DCB	0.4	2	3,300	8260
Pyridine	0.05	0.333	880	8270C
Nitrobenzene	0.05	0.333	110	8270C
Trichlorofluoromethane	0.52	2	1,300	8260

(a) values are based on residential risk-based de-minimis levels

340447

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 340447

Client: Jiffy Lube

Cooler Received On: 7/24/03 And Opened On: 7/24/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 1.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....(YES)...NO...NA
   a. If yes, how many, what kind and where: 2 Front / Back
3. Were custody seals on containers and intact?.....(NO)...YES...NA
4. Were the seals intact, signed, and dated correctly?.....(YES)...NO...NA
5. Were custody papers inside cooler?.....(YES)...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES)...NO...NA
7. Did you sign the custody papers in the appropriate place?.....(YES)...NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES)...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....(YES)...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES)...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....(YES)...NO...NA
13. Were correct bottles used for the analysis requested?.....(YES)...NO...NA
14. a. Were VOA vials received?.....(YES)...NO...NA
    b. Was there any observable head space present in any VOA vial?.....(NO)...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....(YES)...NO...NA
16. Were correct preservatives used?.....(YES)...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....(NO)...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street (Fedex) Misc.

FORM P3606/
(3_6/1/2000)

340447 PENNZOIL-QUAKER STATE COMPANY

Client Code = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 2 88250

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764644
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME: ☒ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX, MTBE 8260B	Lead 6010	PAH 8270C SIMS	TPH-GRO 8015B	TPH-GRO 8021B	TPH-DRO/ORO/KRO 8015B 8015B, 8260B	8270C Solvents ** 6010B Cadmium,	Chromium III 7196A Chromium IV	COMMENTS
10078	7-23-03/1303	Soil	6	3-VOA, 1-4oz Pl. 2-4oz Gl.	114247	X	X	X	X		X			* See attached Yellow sheet
11078	7-23-03/1350	H_2O	9	6-VOA, 1-250mL 1-HCl AL, 1-AL	114245	X	X	X		X	X			regarding analyses (10% of
10021	7-23-03/1745	Soil	7	3-VOA, 1-4oz Pl. 3-4oz Glass	114248	X	X	X	X		X	X	X	X analyses will be Level III
TB-7	Lab	H_2O	2	2-VOA	114246	X								Data Packages)
														* Extract and hold PAH
														and PAH solvents pending
														analyses (See attached
														Blue sheet)

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-23-03			Kirk Curry
COMPANY: Shaw Environmental, Inc.	TIME: 1900	COMPANY	TIME	REMARKS: ** Solvents - See List
(1) RECEIVED BY SIGNATURE: [signature]	DATE: 7/24/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY: 1.5	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/13/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845337.
Laboratory Project Number: 342012.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
12048	03-A121805	7/15/03
10048	03-A121806	7/15/03
10043	03-A121807	7/15/03
10044	03-A121808	7/15/03
10045	03-A121809	7/15/03
10016	03-A121810	7/15/03
10019	03-A121811	7/15/03
10020	03-A121812	7/15/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glenn L. Norton Report Date: 8/13/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121805
Sample ID: 12048
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 7:00
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Acenaphthylene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Anthracene	0.0555	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Chrysene	0.0193	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Fluoranthene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Fluorene	0.271	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Naphthalene	< 0.00370	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Phenanthrene	0.279	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
Pyrene	0.0193	mg/kg	0.00370	1	7/21/03	13:22	D. Harris	8270C-SIM	6780
1-Methylnapthalene	2.22	mg/kg	0.0370	10	7/22/03	1:45	D. Harris	8270C-SIM	9654
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.2	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121805
Sample ID: 12048
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	360. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	87.	36. - 100.
BNA Surr-Terphenyl-d14	90.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121806
Sample ID: 10048
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:05
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Acenaphthylene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Anthracene	0.0536	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Chrysene	0.0198	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Fluoranthene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Fluorene	0.267	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Naphthalene	< 0.00372	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Phenanthrene	0.274	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
Pyrene	0.0178	mg/kg	0.00372	1	7/21/03	13:57	D. Harris	8270C-SIM	6780
1-Methylnapthalene	2.18	mg/kg	0.0372	10	7/22/03	2:18	D. Harris	8270C-SIM	9654
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	88.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121806
Sample ID: 10048
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.2 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	221. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	84.	36. - 100.
BNA Surr-Terphenyl-d14	87.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121807
Sample ID: 10043
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:42
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00400	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Acenaphthylene	< 0.00400	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Anthracene	0.00999	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	0.0268	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	0.0240	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	0.0280	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.0255	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	0.0203	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Chrysene	0.0308	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	0.0144	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Fluoranthene	0.0556	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Fluorene	< 0.00400	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.0220	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	0.0831	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Naphthalene	0.0511	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Phenanthrene	0.0516	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
Pyrene	0.0387	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
1-Methylnapthalene	0.0703	mg/kg	0.00400	1	7/21/03	14:32	D. Harris	8270C-SIM	6780
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121807
Sample ID: 10043
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	118. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	76.	36. - 100.
BNA Surr-Terphenyl-d14	83.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121808
Sample ID: 10044
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 8:52
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00425	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Acenaphthylene	0.00510	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Anthracene	0.00638	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	0.0179	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	0.0166	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	0.0251	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.0242	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	0.0149	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Chrysene	0.0285	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	0.0140	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Fluoranthene	0.0349	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Fluorene	0.00595	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.0191	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	0.398	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Naphthalene	0.171	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Phenanthrene	0.0745	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
Pyrene	0.0272	mg/kg	0.00425	1	7/21/03	15:06	D. Harris	8270C-SIM	6780
1-Methylnapthalene	0.531	mg/kg	0.00851	2	7/22/03	2:51	D. Harris	8270C-SIM	9654
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.6	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121808
Sample ID: 10044
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.5 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	122. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	72.	36. - 100.
BNA Surr-Terphenyl-d14	77.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121809
Sample ID: 10045
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 9:03
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Acenaphthylene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Anthracene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	0.00700	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.00875	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Chrysene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Fluoranthene	0.00354J	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Fluorene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.0101	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	3.22	mg/kg	0.0438	10	7/22/03	3:24	D. Harris	8270C-SIM	9654
Naphthalene	0.761	mg/kg	0.0438	10	7/22/03	3:24	D. Harris	8270C-SIM	9654
Phenanthrene	0.00788	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
Pyrene	< 0.00438	mg/kg	0.00438	1	7/21/03	15:41	D. Harris	8270C-SIM	6780
1-Methylnapthalene	1.80	mg/kg	0.0438	10	7/22/03	3:24	D. Harris	8270C-SIM	9654
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.4	%			7/21/03	16:00	M. Ricke	CLP	6703

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121809
Sample ID: 10045
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.0 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	250. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	79.	36. - 100.
BNA Surr-Terphenyl-d14	75.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121810
Sample ID: 10016
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 15:17
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00369	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Acenaphthylene	< 0.00369	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Anthracene	0.0716	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	0.0801	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	0.0428	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	0.0403	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.0324	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	0.0513	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Chrysene	0.0642	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	0.0192	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Fluoranthene	0.285	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Fluorene	0.103	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.0321	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	0.114	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Naphthalene	0.0255	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Phenanthrene	0.313	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
Pyrene	0.178	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
1-Methylnapthalene	0.130	mg/kg	0.00369	1	7/21/03	17:57	D. Harris	8270C-SIM	6780
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.4	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121810
Sample ID: 10016
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	118. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	84.	36. - 100.
BNA Surr-Terphenyl-d14	80.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121811
Sample ID: 10019
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 16:13
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	0.0335	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Acenaphthylene	0.0152	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Anthracene	0.0939	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	0.220	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	0.171	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	0.165	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.137	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	0.155	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Chrysene	0.203	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	0.0491	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Fluoranthene	0.564	mg/kg	0.00779	2	7/22/03	8:55	D. Harris	8270C-SIM	9654
Fluorene	0.0491	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.117	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	0.0230	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Naphthalene	0.0179	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Phenanthrene	0.353	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
Pyrene	0.372	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
1-Methylnapthalene	0.0249	mg/kg	0.00390	1	7/21/03	19:04	D. Harris	8270C-SIM	6780
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.7	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121811
Sample ID: 10019
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.1 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	96.	34. - 105.
BNA Surr-2-Fluorobiphenyl	76.	36. - 100.
BNA Surr-Terphenyl-d14	75.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A121812
Sample ID: 10020
Sample Type: Soil
Site ID:

Date Collected: 7/15/03
Time Collected: 16:22
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	< 0.00403	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Acenaphthylene	0.0101	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Anthracene	0.0279	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Benzo(a)anthracene	0.0291	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Benzo(a)pyrene	< 0.00403	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Benzo(b)fluoranthene	< 0.00403	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Benzo(g,h,i)perylene	0.0267	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Benzo(k)fluoranthene	< 0.00403	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Chrysene	0.0738	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Dibenz(a,h)anthracene	< 0.00403	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Fluoranthene	0.0775	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Fluorene	0.0642	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Indeno(1,2,3-cd)pyrene	0.0198	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
2-Methylnaphthalene	0.101	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Naphthalene	0.0205	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Phenanthrene	0.137	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
Pyrene	0.0919	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
1-Methylnapthalene	0.176	mg/kg	0.00403	1	7/21/03	19:38	D. Harris	8270C-SIM	6780
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.8	%			7/23/03	18:15	M. Ricke	CLP	9548

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A121812
Sample ID: 10020
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.4 gm	1.0 ml	7/18/03		M. Ricke	SW3550

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	114. #	34. - 105.
BNA Surr-2-Fluorobiphenyl	79.	36. - 100.
BNA Surr-Terphenyl-d14	79.	45. - 108.

LABORATORY COMMENTS:

ND - Not detected at the limit of detection
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
BNA surrogates outside QC range due to sample matrix.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Page: 1
Laboratory Receipt Date: 8/ 7/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/kg	0.0330	0.0310	94	26 - 106	6780
Acenaphthylene	mg/kg	0.0330	0.0330	100	23 - 113	6780
Anthracene	mg/kg	0.0330	0.0323	98	33 - 108	6780
Benzo(a)anthracene	mg/kg	0.0330	0.0396	120 #	47 - 119	6780
Benzo(a)pyrene	mg/kg	0.0330	0.0297	90	37 - 106	6780
Benzo(b)fluoranthene	mg/kg	0.0330	0.0343	104	43 - 121	6780
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0370	112	23 - 124	6780
Benzo(k)fluoranthene	mg/kg	0.0330	0.0310	94	40 - 112	6780
Chrysene	mg/kg	0.0330	0.0323	98	48 - 117	6780
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0373	113	30 - 129	6780

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Page: 2
Laboratory Receipt Date: 8/ 7/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Fluoranthene	mg/kg	0.0330	0.0409	124 #	40 - 119	6780
Fluorene	mg/kg	0.0330	0.0333	101	29 - 112	6780
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0383	116	30 - 125	6780
2-Methylnaphthalene	mg/kg	0.0330	0.0353	107	31 - 115	6780
Naphthalene	mg/kg	0.0330	0.0337	102	23 - 105	6780
Phenanthrene	mg/kg	0.0330	0.0327	99	36 - 107	6780
Pyrene	mg/kg	0.0330	0.0323	98	38 - 113	6780
1-Methylnapthalene	mg/kg	0.0330	0.0340	103	35 - 113	6780

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00330	mg/kg	6780	7/21/03	11:05
Acenaphthylene	< 0.00330	mg/kg	6780	7/21/03	11:05
Anthracene	< 0.00330	mg/kg	6780	7/21/03	11:05
Benzo(a)anthracene	< 0.00330	mg/kg	6780	7/21/03	11:05
Benzo(a)pyrene	< 0.00330	mg/kg	6780	7/21/03	11:05
Benzo(b)fluoranthene	< 0.00330	mg/kg	6780	7/21/03	11:05

Project QC continued . . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845337
Project Name: PQS #5117 ETOWAH TERMINA
Page: 3
Laboratory Receipt Date: 8/ 7/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(g,h,i)perylene	< 0.00330	mg/kg	6780	7/21/03	11:05
Benzo(k)fluoranthene	< 0.00330	mg/kg	6780	7/21/03	11:05
Chrysene	< 0.00330	mg/kg	6780	7/21/03	11:05
Dibenz(a,h)anthracene	< 0.00330	mg/kg	6780	7/21/03	11:05
Fluoranthene	< 0.00330	mg/kg	6780	7/21/03	11:05
Fluorene	< 0.00330	mg/kg	6780	7/21/03	11:05
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	6780	7/21/03	11:05
2-Methylnaphthalene	< 0.00330	mg/kg	6780	7/21/03	11:05
Naphthalene	< 0.00330	mg/kg	6780	7/21/03	11:05
Phenanthrene	< 0.00330	mg/kg	6780	7/21/03	11:05
Pyrene	< 0.00330	mg/kg	6780	7/21/03	11:05
1-Methylnapthalene	< 0.00330	mg/kg	6780	7/21/03	11:05

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 342012

342012

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Sample NonConformance/COC Revision Form

Initiated by:	Kbundy	Phone:		NC Closed	☐
Client Name:	Pennzoil Quaker St	Sample Range:	03-a110545-49 & 5	Date Closed	
Client Contact:	George Robertson	SDG:	339263		
Client Account:	3277	Analyst:			
Date Created:	8/7/2003	Supervisor:	Mark Hollingsworth		
NC #:		NC Type:			

Process: Sample Retagged for New Analysis (Sample already completed)

Corrected By: Jim D. Jacobs

Action: Corrected action not chosen

Closed: ☐

Comments: Samples 03-a110545-549 and samples 03-a110554, 03-a110556 & 557, need the PAH SIMS, and 8270 Solvents, project is a level III.

342012

Kenny Bundy

From: Robertson, George [George.Robertson@shawgrp.com]
Sent: Thursday, August 07, 2003 7:02 AM
To: Kenny Bundy
Subject: PQS Etowah Terminal - Charleston, WV

Kenny,
I have received preliminary lab data for Lab Project No. 339697. These samples were on hold for PAH (extracted 7/18/03). We need to analyze six (6) soil samples (12048, 10048, 10045, 10016, 10019 and 10020) from this set for PAH in accordance with the Chain-of-Custody.

In summary for Lab Project NO. 339263, analyze the following soil samples for PAH as per the Chain-of-Custody:

Lab No. 03-A110545 Sample ID 12048

Lab No. 03-A110546 Sample ID 10048

Lab No. 03-A110549 Sample ID 10045

Lab No. 03-A110554 Sample ID 10016

Lab No. 03-A110556 Sample ID 10019

Lab No. 03-A110557 Sample ID 10020

Thanks,

George A. Robertson
Shaw Environmental, Inc.
1400B Ohio Avenue
Dunbar, West Virginia 25064
Ph: 304.768.2600
Fx: 304.768.4523

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Sample NonConformance/COC Revision Form

Initiated by:	Kbundy	**Phone:**		NC Closed	☐
Client Name:	Pennzoil Quaker St	**Sample Range:**	03-a110545-49 & 5	Date Closed	
Client Contact:	George Robertson	**SDG:**	339263		
Client Account:	3277	**Analyst:**			
Date Created:	8/7/2003	**Supervisor:**	Mark Hollingsworth		
NC #:		**NC Type:**			

Process: Sample Retagged for New Analysis (Sample already completed) **Corrected By:** Jim D. Jacobs

Action: Corrected action not chosen **Closed:** ☑ Mbeasley

Comments:

Comment added by: Mbeasley on 8/7/2003 2:10:10 PM
DONE

****

Comment added by: Kbundy on 8/7/2003 1:40:44 PM
I'm sorry, I was confused, run the PAH's by 8270 SIMs only.

****

Comment added by: Kbundy on 8/7/2003 9:57:50 AM
These samples have already been extracted, and held per the original request.

****

Samples 03-a110545-549 and samples 03-a110554, 03-a110556 & 557, need the PAH SIMS, and 8270 Solvents, project is a level III.

342012

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

2960 Foster Creighton Drive • Nashville, Tennessee 37204

Solvent Screen Constituents SOIL				
Analyte	MDL mg/kg	QL mg/kg	Table 60-3B Industrial De-Minimis mg/kg	Analytical Method
Isobutanol	NA	100	77,000	8260
N-butanol	NA	100	88,000	8260
Methanol	1	10	440,000	8015B
2-Ethoxyethanol	1.62	20	350,000	8015B
Acetone	10.29	50	6,200	8260
Carbon disulfide	0.43	2	1,200	8260
Carbon tetrachloride	0.61	2	5.3	8260
Chlorobenzene	0.63	2	540	8260
Cyclohexanone	NA	10	1,000,000	8260
Ethylbenzene	0.47	2	6,000	8260
Methylene chloride	0.66	10	210	8260
MEK	21	50	28,000	8260
MIBK	3.6	10	2,900	8260
Tetrachloroethene	0.46	2	190	8260
Toluene	0.77	2	2,000	8260
111-TCA	0.75	2	3,200	8260
Trichloroethene	0.59	2	61	8260
Xylenes	1.31	2	4,500	8260
112-TCA	0.52	2	19	8260
Benzene	0.33	2	15	8260
o-Cresol (2-Methylphenol)	0.04	0.333	44,000	8270C
3-Methylphenol (m-cresol)	0.04	0.333	44,000	8270C
p-cresol (4-Methylphenol)	0.04	0.333	4,400	8270C
12-DCB	0.4	2	3,300	8260
Pyridine	0.05	0.333	880	8270C
Nitrobenzene	0.05	0.333	110	8270C
Trichlorofluoromethane	0.52	2	1,300	8260

(a) values are based on residential risk-based de-minimis levels

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ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 342012

Client: Pensoil

Cooler Received On: 7/16/03 And Opened On: 7/16/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 1.4 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES....NO....NA
   a. If yes, how many, what kind and where: 2 Front / Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street Fedex Misc.

FORM P3606P
(3_6/1/2000)

342012 PENNZOIL-QUAKER STATE COMPANY

Client Code = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 3 88246

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc.
ADDRESS: 700 ~~Milam~~ Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: Barlow Rd	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199828340, 838199828307, 838199849978
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 3

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX, MTBE, 2260B	6010	8270C SIMS	GRO/DRO/RO/KRO 8015B, 8260B	7C Solvents (See List)	6010B Cadmium, Chromium III	7196A Chromium IV	COMMENTS
12048	7-15-03/0700	Soil	6	3-VOA 2-4oz 2-4oz G Pl.	110545	X	03-A121805-1						*See Attached Yellow Sheet
2 10048	/0805		6		46	X	03-A121806-1						regarding analyses (10% of
10043	/0842		6		47	X	03-A121807-1						analyses will be Level III
4 10044	/0852		6		110548	X	03-A121808-1						data packages.)
10044MS	/0852		6			X							* Extract and hold PAHs
6 10044MSD	/0852		6			X	X	X	X				pending Analytical Results,
10045	/0903		6		110549	X	03-A121809-1						as well as PAH solvents.
8 10042	/1005		6		50	X	X	X	X				(See Attached Blue Sheet)
10039	/1107		6		51	X	X	X	X				
10 10013	/1318		7	3 VOA 2-4oz 3-4oz G Pl.	110552	X	X	X	X	X	X	X	

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
[signature]	7-15-03			Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1800	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE: [signature]	DATE: 7/16/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY: 1.4	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

FORM P3606P
(3_6/1/2000)

342012

PENNZOIL-QUAKER STATE COMPANY

Client Code 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 2 of 3

88245

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845337	COMPANY: Shaw Environmental, Inc.	NAME: Test America, Inc
ADDRESS: 700 Milam	PROJECT NAME: PQS #5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199849978, 838199828340, 838199828307,
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 3

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	8260B BTEX, MTBE	6010 Lead	8270C SIMS	TPH-GRO/DRO/ORO/KRO 8015B, 8260B, 8270C Solvents (see List)		6010B Cadmium, Chromium III	7196A Chromium III	TPH-GRO (H2O) 8021B samples	COMMENTS
10014	7-15-03/1327	Soil	~~6~~ 7	3 VOA 1-4oz PI 3-4oz G	110553	X	X	X	X	X		X	X		*See attached Yellow sheet
12 10014 MS	/1327	Soil	7	↓	↓	X	X	X	X	X		X	X		regarding analyses (10% of
10014 MSD	/1327	Soil	7	↓	↓	X	X	X	X	X		X	X		analyses will be Level III Data
W 11045	/0930	H_2O	9	6-VOA 1-HCl AL 1-250 1-AL	—	X	✓	✓	X	~~X~~				X	Packages.
H 10016	/1517	Soil	7	3-VOA 1-4oz PI 3-4oz Cl	110554	03-A121810-1						X	X		*See attached Blue sheet
10017	/1527	Soil	7	↓	55	X						X	X		for solvents. Extract and hold
16 10019	/1613	Soil	7	↓	56	03-A121811-1						X	X		PAH + Solvents PAH pending
10020	/1622	Soil	7	↓	57	03-A121812-1						X	X		analytical results
W 11020	/1700	H_2O	12	6-VOA 2-HCl AL 2-250mL 2-AL	—	X	X	X	X	X		X	X	X	
18 12017	/0715	Soil	7	3-VOA, 1-4oz PI 3-4oz glass	110556	X	X	X	X	X		X	X		

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E Curry	7-15-03			Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1800	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE: MB	DATE: 7/16/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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8/ 4/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845335.
Laboratory Project Number: 339953.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
11098	03-A111888	7/18/03
10093	03-A111889	7/18/03
10094	03-A111890	7/18/03
10095	03-A111891	7/18/03
10096	03-A111892	7/18/03
10097	03-A111893	7/18/03
10098	03-A111894	7/18/03
12096	03-A111895	7/18/03
10093	03-A111896	7/18/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Glenn L. Norton Report Date: 8/ 4/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 846335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111888
Sample ID: 11098
Sample Type: Ground water
Site ID:

Date Collected: 7/18/03
Time Collected: 10:40
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	MDL	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111889
Sample ID: 10093
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:15
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.9	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111890
Sample ID: 10094
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:35
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	0.570	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111891
Sample ID: 10095
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:50
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.3	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111892
Sample ID: 10096
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:10
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	3.05	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111893
Sample ID: 10097
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:18
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	86.5	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111894
Sample ID: 10098
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:27
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.7	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111895
Sample ID: 12096
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:40
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	2.94	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111896
Sample ID: 10093
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:15
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.4	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
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End of Sample Report.

TestAmerica
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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 7/19/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	< 0.500	52.5	50.0	105	80 - 120	8714	Duplicate

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	5.00	5.78	116	80 - 120	8714

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 7/19/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Lead	< 0.500	mg/l	8714	7/24/03	12:51

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339953

339953

ALERT FOR SAMPLE LOGIN

Relinquished by:	Date/Time:	Received by:	Date/Time
Kenny Bundy	7/18/03 15:49		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

ALERT INFORMATION:

Client Name: Pennzoil Quaker State (Consultant Shaw E&I)

Client Number: 3277

Project Name: Etowah, and Huntington Trminal. 2 projects. I believe that both are level III

Project Number:

Date to receive cooler: 7/19/03

How many samples are there: Etowah, has 30 sets of samples.,

Matrix of samples: Huntington Terminal Etowah is water

What tests will be on the COC? Not specifically sure.

Will a copy of the COC be faxed?

PURPOSE OF THIS ALERT:

Heads up for incoming project: Heads up big projects coming in. Etowah about 30 samples, not sure for Huntington terminal.
or
Project changes prior to sample login:

LOGIN: REMEMBER TO ALWAYS PRINT CLIENT NOTES, WHEN APPLICABLE.

339953

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

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ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM BC# 339953

Client: Pennzoil - Quaker State

Cooler Received On: 7/19/03 And Opened On: 7/19/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 0.8 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2, Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here TCLP metal (water) should not be preserved
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

FORM P3606P
(3_6/1/2000)

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

PENNZOIL-QUAKER STATE COMPANY

339953

Client Code = 3277

CHAIN OF CUSTODY RECORD

Page 1 of ___

88243

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillen	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: TestAmerica, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS #5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838177335127
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME: ☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	TCLP Lead									COMMENTS
10093	7-18-03/0915	Soil	1	1-4oz Pl	111889	X									*See Attached Yellow Sheet
10094	7-18-03/0935	Soil	1	↓	90	X									regarding analyses (10%
10095	7-18-03/0950	Soil	1		91	X									of analyses will be
10096	7-18-03/1010	Soil	1		92	X									Level III Data Packages)
10097	7-18-03/1018	Soil	1		93	X									
10098	7-18-03/1027	Soil	1		94	X									
12096	7-18-03/0800	Soil	1	↓	95	X									
11098	7-18-03/1040	H_2O	1	1-250mL	111888	X									
10093MS	7-18-03/0915	Soil	1	1-4oz Pl	111896	X									
10093MSD	7-18-03/0915	Soil	1	1-4oz Pl	—	X									

(1) RELINQUISHED BY SIGNATURE: Kirk E Curry	DATE: 7-18-03	(2) RELINQUISHED BY SIGNATURE:	DATE:	SAMPLER'S NAME: Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1140	COMPANY:	TIME:	REMARKS:
(1) RECEIVED BY SIGNATURE:	DATE:	(2) RECEIVED BY SIGNATURE: [signature]	DATE: 7/19/03	
COMPANY:	TIME:	COMPANY: TA	TIME: 0820	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

REIC

RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

Improving the environment, one client at a time...

225 Industrial Park Rd.
Post Office Box 286
Beaver, WV 25813
800.999.0105
304.255.2500 • 304.255.2572 (fax)
website: www.reiclabs.com

Member:

American Chemical Society

Association of Official Analytical Chemists

Petroleum Marketers Association

Rural Water Association

Mining & Reclamation Association

American Water Works Association

The Solid Waste Association of North America

West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

August 04, 2003

Mr. Dave Carpenter
THE SHAW GROUP, INC. / DUNBAR
1400 B OHIO AVENUE
DUNBAR, WV 25064
TEL: (304) 768-2600
FAX (304) 768-4523

RE: 845335 Order No.: 0307927

Dear Mr. Dave Carpenter,

REI Consultants Inc. received 2 samples on 7/24/2003 for the analyses presented in the following report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Ray Erickson
Vice President

CC:

REI Consultants Inc.

Date: 04-Aug-03

Client: THE SHAW GROUP, INC. / DUNBAR
Client Sample ID: 10099
Project: 845335
Site ID: PQS#5117 ETOWAH

Lab Order: 0307927
Lab ID: 0307927-01A
Collection Date: 7/23/2003
Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
VOLATILE COMPOUNDS IDENTIFIED		**GCMS**					
TIC: None Detected	ND	NA		(Estimated)		07/29/03	TC

Abbreviations:
ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compound

Qualifiers:
J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 04-Aug-03

Client: THE SHAW GROUP, INC. / DUNBAR
Client Sample ID: TRIP BLANK
Project: 845335
Site ID: PQS#5117 ETOWAH

Lab Order: 0307927
Lab ID: 0307927-02A
Collection Date: 7/23/2003
Matrix: LIQUID

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
VOLATILE COMPOUNDS IDENTIFIED		**GCMS**					
TIC: None Detected	ND	NA		(Estimated)		07/29/03	TC

Abbreviations:
ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compound

Qualifiers:
J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc. **Date:** 04-Aug-03

CLIENT: THE SHAW GROUP, INC. / DUNBAR **Lab Order:** 0307927
Project: 845335
Site ID: PQS#5117 ETOWAH

Data Review

Approved: 8-4-03
Joseph Robertson - Organic Lab Manager Date

Abbreviations:
ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compound

Qualifiers:
J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO. 128680

CLIENT: Pennzoil Quaker State / Shaw Env.
ADDRESS: 1400B Ohio Ave.
CITY/STATE/ZIP: Dunbar, WV 25064
BILL TO: Shaw Environmental, Inc.
CITY/STATE/ZIP: Same as above
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: David Carpenter
TELEPHONE #: 304-768-2600
FAX #: 304-768-4523
E-MAIL ADDRESS: david.carpenter@shawgrp.com
SITE ID & STATE: PQS #5117 Etowah
PROJECT ID: 845335
SAMPLER: Kirk E. Curry

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: X
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES
NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: VOC scan (Top ten peaks & percentage)

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	VOC scan (Top ten peaks & percentage)	COMMENTS
10099	3-4oz glass	7-23-03/1715	Soil	Grab	X	
Trip Blank	1-VOA	Lab	H_2O		X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	7-24-03 0815	[signature]	7/24/03 0915				
[signature]	7/24/03 1425	[signature]	7-24-03 1425	Temperature Upon Arrival 2.0 °C		☐ FAX Results	☐ Email Results

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7/31/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845335.
Laboratory Project Number: 340442.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
DRUM COMP.	03-A114220	7/23/03
DRUM COMP.	03-A114231	7/23/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Jessica Acey Report Date: 7/31/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114220
Sample ID: DRUM COMP.
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 16:30
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.0	%		1	7/28/03	22:15	M. Ricke	CLP	2405
ORGANIC PARAMETERS									
Benzene	0.165	mg/kg	0.123	50	7/29/03	3:11	H. Wagner	8021B	8780
Ethylbenzene	0.516	mg/kg	0.215	50	7/29/03	3:11	H. Wagner	8021B	8780
Toluene	0.198	mg/kg	0.123	50	7/29/03	3:11	H. Wagner	8021B	8780
Xylenes, total	1.27	mg/kg	0.215	50	7/29/03	3:11	H. Wagner	8021B	8780
TPH (Diesel Range)	359	mg/kg	244	20	7/30/03	9:47	L. Watson	8015B	5935
Naphthalene	0.228	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Acenaphthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Fluorene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(a)anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(a)pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(b)fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(k)fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Chrysene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Dibenzo(a,h)anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Indeno(1,2,3-cd)pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Acenaphthylene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(g,h,i)perylene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Phenanthrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A114220
Sample ID: DRUM COMP.
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	7/26/03		M. Ricke	3550
EPH/DRO	25.2 gm	1.0 ml	7/26/03		M. Ricke	3550
BTX Prep	7.17 g	5.0 ml	7/23/03	16:30	H. Wagner	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	65. - 119.
BNA Surr-Nitrobenzene-d5	72.	44. - 99.
BNA Surr-2-Fluorobiphenyl	77.	45. - 94.
BNA Surr-Terphenyl-d14	92.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114231
Sample ID: DRUM COMP.
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 16:30
Date Received: 7/24/03
Time Received: 8:10
Page: 1

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	87	7/28/03	6010B
TCLP Extraction	Initiated				7/26/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 1
Laboratory Receipt Date: 7/24/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Diesel Range)	mg/kg	< 10.0	33.6	40.0	84	50. - 129.	5935	03-A114127
METALS								
Lead	mg/l	< 0.500	43.4	50.0	87	80 - 120	4665	03-A114507

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Diesel Range)	mg/kg	33.6	44.5	27.91	43.	5935
Naphthalene	mg/kg	1.12	1.16	3.51	38.	6042
Acenaphthene	mg/kg	1.16	1.19	2.55	40.	6042
Anthracene	mg/kg	1.19	1.25	4.92	34.	6042
Fluoranthene	mg/kg	1.32	1.42	7.30	42.	6042
Fluorene	mg/kg	1.19	1.25	4.92	40.	6042
Pyrene	mg/kg	1.12	1.16	3.51	37.	6042
Benzo(a)anthracene	mg/kg	1.16	1.22	5.04	35.	6042
Benzo(a)pyrene	mg/kg	1.22	1.32	7.87	36.	6042
Benzo(b)fluoranthene	mg/kg	1.25	1.35	7.69	40.	6042
Benzo(k)fluoranthene	mg/kg	1.35	1.45	7.14	36.	6042
Chrysene	mg/kg	1.16	1.22	5.04	34.	6042
Dibenzo(a,h)anthracene	mg/kg	1.25	1.45	14.81	37.	6042
Indeno(1,2,3-cd)pyrene	mg/kg	1.35	1.45	7.14	40.	6042

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 2
Laboratory Receipt Date: 7/24/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Acenaphthylene	mg/kg	1.12	1.19	6.06	42.	6042
Benzo(g,h,i)perylene	mg/kg	1.42	1.55	8.75	37.	6042
Phenanthrene	mg/kg	1.16	1.22	5.04	34.	6042
METALS						
Lead	mg/l	43.4	44.0	1.37	20	4665

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0847	85	71 - 132	8780
Toluene	mg/kg	0.100	0.0893	89	68 - 129	8780
Ethylbenzene	mg/kg	0.100	0.0916	92	71 - 131	8780
Xylenes, total	mg/kg	0.200	0.183	92	66 - 131	8780
TPH (Diesel Range)	mg/kg	40.0	37.7	94	50 - 125	5935
UST PARAMETERS						
Naphthalene	mg/kg	1.67	1.22	73	34 - 111	6042
Acenaphthene	mg/kg	1.67	1.22	73	39 - 116	6042
Anthracene	mg/kg	1.67	1.22	73	41 - 118	6042
Fluoranthene	mg/kg	1.67	1.35	81	42 - 123	6042
Fluorene	mg/kg	1.67	1.25	75	40 - 120	6042
Pyrene	mg/kg	1.67	1.16	69	40 - 125	6042
Benzo(a)anthracene	mg/kg	1.67	1.19	71	42 - 123	6042
Benzo(a)pyrene	mg/kg	1.67	1.25	75	41 - 123	6042
Benzo(b)fluoranthene	mg/kg	1.67	1.29	77	40 - 123	6042
Benzo(k)fluoranthene	mg/kg	1.67	1.39	83	42 - 130	6042
Chrysene	mg/kg	1.67	1.19	71	40 - 123	6042

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 3
Laboratory Receipt Date: 7/24/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibenzo(a,h)anthracene	mg/kg	1.67	1.22	73	16 - 139	6042
Indeno(1,2,3-cd)pyrene	mg/kg	1.67	1.42	85	12 - 138	6042
Acenaphthylene	mg/kg	1.67	1.19	71	39 - 116	6042
Benzo(g,h,i)perylene	mg/kg	1.67	1.45	87	9 - 144	6042
Phenanthrene	mg/kg	1.67	1.22	73	39 - 119	6042
METALS						
Lead	mg/l	5.00	4.65	93	80 - 120	4665

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	8780	7/29/03	6:22
Toluene	< 0.0010	mg/kg	8780	7/29/03	6:22
Ethylbenzene	< 0.0010	mg/kg	8780	7/29/03	6:22
Xylenes, total	< 0.0010	mg/kg	8780	7/29/03	6:22
TPH (Diesel Range)	< 10.0	mg/kg	5935	7/29/03	20:34
Naphthalene	< 0.066	mg/kg	6042	7/28/03	18:21
Acenaphthene	< 0.066	mg/kg	6042	7/28/03	18:21

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 4
Laboratory Receipt Date: 7/24/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Fluorene	< 0.066	mg/kg	6042	7/28/03	18:21
Pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(a)anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(a)pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(b)fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(k)fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Chrysene	< 0.066	mg/kg	6042	7/28/03	18:21
Dibenzo(a,h)anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Indeno(1,2,3-cd)pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Acenaphthylene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(g,h,i)perylene	< 0.066	mg/kg	6042	7/28/03	18:21
Phenanthrene	< 0.066	mg/kg	6042	7/28/03	18:21
UST surr-Trifluorotoluene	102.	% Recovery	8780	7/29/03	6:22
METALS					
Lead	< 0.500	mg/l	4665	7/28/03	21:40

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 340442

TestAmerica
INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Mbeasley	**Phone:**		NC Closed	☑
Client Name:	Jiffy Lube	**Sample Range:**	114220 & 114231	Date Closed	7/24/2003
Client Contact:	Dan McQuillan	**SDG:**	340442		
Client Account:	3277	**Analyst:**	5		
Date Created:	7/24/2003	**Supervisor:**			
NC #:	114231	**NC Type:**	NC Analytical 1		

Process: Other NC/Process: See Comment Section Below

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Mbeasley on 7/24/2003 1:22:54 PM
NC closed with out comments

****

Comment added by: Kbundy on 7/24/2003 11:58:53 AM
Per George Robertson 8270C is correct, they do not need SIM

****

Want regular PAH 8270 or PAH 8270 SIMS?

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 340442

Client: Pennzoil

Cooler Received On: 7/24/03 And Opened On: 7/24/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 1.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2 Front / Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street Fedex Misc.

FORM P3606P
(3_6/1/2000)

340442

PENNZOIL-QUAKER STATE COMPANY

Client C. . = 3277

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 1 88229

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: TestAmerica, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS #5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764644
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME: ☒ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX 8021B	TCLP Lead	TPH-DRO 8015	PAH 8270C						COMMENTS
DrumComp.	7-23-03/1630	Soil	6	3-VOA, 1-4oz pl. 2-4oz Cl.	114220/114221	X	X	X	X						* Samples will be for a Level II Data Package.

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-23-03			Kirk E. Curry
COMPANY: Shaw Environmental, Inc.	TIME: 1900	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE: 7/24/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY: 1.5	TIME: 8:10	COMPANY	TIME	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

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7/31/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117 ETOWAH TERMINA
Project Number: 845335.
Laboratory Project Number: 340442.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
DRUM COMP.	03-A114220	7/23/03
DRUM COMP.	03-A114231	7/23/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Gail A. Lage Report Date: 7/31/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114220
Sample ID: DRUM COMP.
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 16:30
Date Received: 7/24/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.0	%		1	7/28/03	22:15	M. Ricke	CLP	2405
ORGANIC PARAMETERS									
Benzene	0.185	mg/kg	0.123	50	7/29/03	3:11	H. Wagner	8021B	8780
Ethylbenzene	0.516	mg/kg	0.215	50	7/29/03	3:11	H. Wagner	8021B	8780
Toluene	0.198	mg/kg	0.123	50	7/29/03	3:11	H. Wagner	8021B	8780
Xylenes, total	1.27	mg/kg	0.215	50	7/29/03	3:11	H. Wagner	8021B	8780
TPH (Diesel Range)	359	mg/kg	244	20	7/30/03	9:47	L. Watson	8015B	5935
Naphthalene	0.228	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Acenaphthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Fluorene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(a)anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(a)pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(b)fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(k)fluoranthene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Chrysene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Dibenzo(a,h)anthracene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Indeno(1,2,3-cd)pyrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Acenaphthylene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Benzo(g,h,i)perylene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042
Phenanthrene	<0.081	mg/kg	0.081	1	7/28/03	22:08	M. Cobb	8270C	6042

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A114220
Sample ID: DRUM COMP.
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	7/26/03		M. Ricke	3550
EPH/DRO	25.2 gm	1.0 ml	7/26/03		M. Ricke	3550
BTX Prep	7.17 g	5.0 ml	7/23/03	16:30	H. Wagner	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	65. - 119.
BNA Surr-Nitrobenzene-d5	72.	44. - 99.
BNA Surr-2-Fluorobiphenyl	77.	45. - 94.
BNA Surr-Terphenyl-d14	92.	53. - 104.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A114231
Sample ID: DRUM COMP.
Sample Type: Soil
Site ID:

Date Collected: 7/23/03
Time Collected: 16:30
Date Received: 7/24/03
Time Received: 8:10
Page: 1

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	87	7/28/03	6010B
TCLP Extraction	Initiated				7/26/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 1
Laboratory Receipt Date: 7/24/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Diesel Range)	mg/kg	< 10.0	33.6	40.0	84	50. - 129.	5935	03-A114127
METALS								
Lead	mg/l	< 0.500	43.4	50.0	87	80 - 120	4665	03-A114507

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Diesel Range)	mg/kg	33.6	44.5	27.91	43.	5935
Naphthalene	mg/kg	1.12	1.16	3.51	38.	6042
Acenaphthene	mg/kg	1.16	1.19	2.55	40.	6042
Anthracene	mg/kg	1.19	1.25	4.92	34.	6042
Fluoranthene	mg/kg	1.32	1.42	7.30	42.	6042
Fluorene	mg/kg	1.19	1.25	4.92	40.	6042
Pyrene	mg/kg	1.12	1.16	3.51	37.	6042
Benzo(a)anthracene	mg/kg	1.16	1.22	5.04	35.	6042
Benzo(a)pyrene	mg/kg	1.22	1.32	7.87	36.	6042
Benzo(b)fluoranthene	mg/kg	1.25	1.35	7.69	40.	6042
Benzo(k)fluoranthene	mg/kg	1.35	1.45	7.14	36.	6042
Chrysene	mg/kg	1.16	1.22	5.04	34.	6042
Dibenzo(a,h)anthracene	mg/kg	1.25	1.45	14.81	37.	6042
Indeno(1,2,3-cd)pyrene	mg/kg	1.35	1.45	7.14	40.	6042

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 2
Laboratory Receipt Date: 7/24/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Acenaphthylene	mg/kg	1.12	1.19	6.06	42.	6042
Benzo(g,h,i)perylene	mg/kg	1.42	1.55	8.75	37.	6042
Phenanthrene	mg/kg	1.16	1.22	5.04	34.	6042
METALS						
Lead	mg/l	43.4	44.0	1.37	20	4665

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0847	85	71 - 132	8780
Toluene	mg/kg	0.100	0.0893	89	68 - 129	8780
Ethylbenzene	mg/kg	0.100	0.0916	92	71 - 131	8780
Xylenes, total	mg/kg	0.200	0.183	92	66 - 131	8780
TPH (Diesel Range)	mg/kg	40.0	37.7	94	50 - 125	5935
UST PARAMETERS						
Naphthalene	mg/kg	1.67	1.22	73	34 - 111	6042
Acenaphthene	mg/kg	1.67	1.22	73	39 - 116	6042
Anthracene	mg/kg	1.67	1.22	73	41 - 118	6042
Fluoranthene	mg/kg	1.67	1.35	81	42 - 123	6042
Fluorene	mg/kg	1.67	1.25	75	40 - 120	6042
Pyrene	mg/kg	1.67	1.16	69	40 - 125	6042
Benzo(a)anthracene	mg/kg	1.67	1.19	71	42 - 123	6042
Benzo(a)pyrene	mg/kg	1.67	1.25	75	41 - 123	6042
Benzo(b)fluoranthene	mg/kg	1.67	1.29	77	40 - 123	6042
Benzo(k)fluoranthene	mg/kg	1.67	1.39	83	42 - 130	6042
Chrysene	mg/kg	1.67	1.19	71	40 - 123	6042

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 3
Laboratory Receipt Date: 7/24/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibenzo(a,h)anthracene	mg/kg	1.67	1.22	73	16 - 139	6042
Indeno(1,2,3-cd)pyrene	mg/kg	1.67	1.42	85	12 - 138	6042
Acenaphthylene	mg/kg	1.67	1.19	71	39 - 116	6042
Benzo(g,h,i)perylene	mg/kg	1.67	1.45	87	9 - 144	6042
Phenanthrene	mg/kg	1.67	1.22	73	39 - 119	6042
METALS						
Lead	mg/l	5.00	4.65	93	80 - 120	4665

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	8780	7/29/03	6:22
Toluene	< 0.0010	mg/kg	8780	7/29/03	6:22
Ethylbenzene	< 0.0010	mg/kg	8780	7/29/03	6:22
Xylenes, total	< 0.0010	mg/kg	8780	7/29/03	6:22
TPH (Diesel Range)	< 10.0	mg/kg	5935	7/29/03	20:34
Naphthalene	< 0.066	mg/kg	6042	7/28/03	18:21
Acenaphthene	< 0.066	mg/kg	6042	7/28/03	18:21

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117 ETOWAH TERMINA
Page: 4
Laboratory Receipt Date: 7/24/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Fluorene	< 0.066	mg/kg	6042	7/28/03	18:21
Pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(a)anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(a)pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(b)fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(k)fluoranthene	< 0.066	mg/kg	6042	7/28/03	18:21
Chrysene	< 0.066	mg/kg	6042	7/28/03	18:21
Dibenzo(a,h)anthracene	< 0.066	mg/kg	6042	7/28/03	18:21
Indeno(1,2,3-cd)pyrene	< 0.066	mg/kg	6042	7/28/03	18:21
Acenaphthylene	< 0.066	mg/kg	6042	7/28/03	18:21
Benzo(g,h,i)perylene	< 0.066	mg/kg	6042	7/28/03	18:21
Phenanthrene	< 0.066	mg/kg	6042	7/28/03	18:21
UST surr-Trifluorotoluene	102.	% Recovery	8780	7/29/03	6:22
METALS					
Lead	< 0.500	mg/l	4665	7/28/03	21:40

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 340442

TestAmerica
INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Mbeasley	**Phone:**		NC Closed	☑
Client Name:	Jiffy Lube	**Sample Range:**	114220 & 114231	Date Closed	7/24/2003
Client Contact:	Dan McQuillan	**SDG:**	340442		
Client Account:	3277	**Analyst:**	5		
Date Created:	7/24/2003	**Supervisor:**			
NC #:	114231	**NC Type:**	NC Analytical 1		

Process: Other NC/Process: See Comment Section Below

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Mbeasley on 7/24/2003 1:22:54 PM
NC closed with out comments

****

Comment added by: Kbundy on 7/24/2003 11:58:53 AM
Per George Robertson 8270C is correct, they do not need SIM

****

Want regular PAH 8270 or PAH 8270 SIMS?

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 340442

Client: Pennzoil

Cooler Received On: 7/24/03 And Opened On: 7/24/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 1.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2 Front 1 Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

UPS Velocity Airborne Route Off-street Fedex Misc.

FORM P3606P
(3_6/1/2000)

340442

PENNZOIL-QUAKER STATE COMPANY

Client Conc = 3277

DISTRIBUTIO.
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

CHAIN OF CUSTODY RECORD

Page 1 of 1 88229

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: TestAmerica, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS #5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: 1015 Barlow Rd.	ADDRESS: 1400B Ohio Ave	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838199764644
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME: [X] 10 WORKING DAYS [ ] 5 WORKING DAYS [ ] 24 HOURS [ ] OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	BTEX 8021B	TCLP Lead	TPH-DRO8015	PAH 8270C						COMMENTS
DrumComp.	7-23-03/1630	Soil	6	3-VOA, 1-4oz. gl. 2-4oz Gl.	114220/114221	X	X	X	X						* Samples will be for a Level II Data Package.

(1) RELINQUISHED BY SIGNATURE	DATE	(2) RELINQUISHED BY SIGNATURE	DATE	SAMPLER'S NAME
Kirk E. Curry	7-23-03			Kirk E. Curry
COMPANY: Shaw Environmental, Inc.	TIME: 1900	COMPANY	TIME	REMARKS
(1) RECEIVED BY SIGNATURE	DATE: 7/24/03	(2) RECEIVED BY SIGNATURE	DATE	
COMPANY	TIME: 8:10	COMPANY	TIME	

1.5

FOR LABORATORY USE ONLY
Samples received in good condition? [ ] Yes [ ] No Custody Seal Intact? [ ] Yes [ ] No Samples Chilled? [ ] Yes ___ °C [ ] No Shipping Method: _____

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

CASE NARRATIVE
August 12, 2003

Client: SHAW GROUP, INC./IT CORP. 3394
Attn: Mr. George Robertson
1400B Ohio Ave.
Dunbar, WV 25064

Client Project: PQS #5117 ETOWAH TERMINAL

Matrix: TCLP-SOIL

Laboratory Project: 339953

Number Samples: 8

Date Received: 7/19/03

Date Collected: 7/18/03

Sample Receipt Notes: Samples were properly preserved and received in good condition on 7/19/03 (see 'Sample Non-Conformance Form' for additional sample anomalies). Analyses were extracted and performed within method required holding times following **Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846).** The data package was completed as a 'Level III' with 'ascii'/comma/delimited' electronic deliverables. % Moisture data, TCLP Extraction data, and an 'Example Calculation Sheet' are available at the end of this package.

QC Notes:

TCLP Lead SW 6010B/1311- BATCH 8714

Eight soil samples (TAI #'s 03-A111889-96) were analyzed for TCLP Lead by Method SW846 6010B/1311. Blank results were non-detect. Client sample # 10093 (TAI # 03-A111896) was analyzed as the matrix spike and duplicate. All spike, LCS % recoveries, and 'Serial Dilution' results were acceptable. An outlying duplicate RPD value was observed for Lead. Spike and duplicate QC results can be found on Forms 5 and 6 of the data package. LCS % recoveries can be found on Form 7. All initial and continuing calibration requirements were met. An analysis run log is available at the end of the summary data section.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 (ext. 1265).

Thank you.

Sincerely,

Kelly S. Comstock
Technical Services
TestAmerica Analytical Testing Corporation- Nashville

FORM P3606P
(3_6/1/2000)

DISTRIBUTION:
Consultant - Complete header & body and retain last copy. Send remaining copies to lab.
Lab - Process and send original to Pennzoil-Quaker State Company Project Manager.

PENNZOIL-QUAKER STATE COMPANY

339953

Client Code = 3277

CHAIN OF CUSTODY RECORD

Page 1 of ___

88243

PENNZOIL-QUAKER STATE COMPANY INFO.	PROJECT LOCATION INFORMATION	CONSULTANT INFORMATION	LABORATORY INFORMATION
PROJECT MANAGER: Dan McQuillan	PROJECT NUMBER: 845335	COMPANY: Shaw Environmental, Inc.	NAME: TestAmerica, Inc.
ADDRESS: 700 Milam	PROJECT NAME: PQS#5117 Etowah Terminal	PROJECT MANAGER: David Carpenter	ADDRESS: 2960 Foster Creighton
CITY: Houston	ADDRESS: Barlow Rd.	ADDRESS: 1400B Ohio Ave.	CITY: Nashville
STATE: TX ZIP: 77252	CITY: Charleston	CITY: Dunbar STATE: WV ZIP: 25064	STATE: TN ZIP: 37204
PHONE NUMBER: 713-546-8517	STATE: WV ZIP:	PHONE NUMBER: 304-768-2600	AIR BILL NUMBER: 838177335127
FAX NUMBER: 713-546-8505	PHONE NUMBER:	FAX NUMBER: 304-768-4523	NUMBER OF COOLERS: 1

TURNAROUND TIME
☐ 10 WORKING DAYS ☐ 5 WORKING DAYS ☐ 24 HOURS ☐ OTHER (Specify):

ANALYSIS REQUESTED (Include Test Method)

PENNZOIL-QUAKER STATE COMPANY SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX DESC.	NO. OF CONT.	CONT. TYPE	LAB SAMPLE I.D.	TCLP Lead									COMMENTS
10093	7-18-03/0915	Soil	1	1-4oz Pl	111889	X									*See Attached Yellow Sheet
10094	7-18-03/0935	Soil	1	↓	90	X									regarding analyses (10%
10095	7-18-03/0950	Soil	1	↓	91	X									of analyses will be
10096	7-18-03/1010	Soil	1	↓	92	X									Level III Data Packages)
10097	7-18-03/1018	Soil	1	↓	93	X									
10098	7-18-03/1027	Soil	1	↓	94	X									
12096	7-18-03/0800	Soil	1	↓	95	X									
11098	7-18-03/1040	H_2O	1	1-250mL	111888	X									
10093MS	7-18-03/0915	Soil	1	1-4oz Pl	111896	X									
10093MSD	7-18-03/0915	Soil	1	1-4oz Pl	↓	X									

(1) RELINQUISHED BY SIGNATURE: Kirk E Curry	DATE: 7-18-03	(2) RELINQUISHED BY SIGNATURE:	DATE:	SAMPLER'S NAME: Kirk E Curry
COMPANY: Shaw Environmental	TIME: 1140	COMPANY:	TIME:	REMARKS:
(1) RECEIVED BY SIGNATURE:	DATE:	(2) RECEIVED BY SIGNATURE: [signature]	DATE: 7/19/03	
COMPANY:	TIME:	COMPANY: TA	TIME: 0820	

FOR LABORATORY USE ONLY
Samples received in good condition? ☐ Yes ☐ No Custody Seal Intact? ☐ Yes ☐ No Samples Chilled? ☐ Yes ___ °C ☐ No Shipping Method: _____

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM BC# 339953

Client: Pennzoil - Quaker State

Cooler Received On: 7/19/03 And Opened On: 7/19/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 0.8 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2, Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here TCLP metal (water) should not be preserved.
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

ALERT FOR SAMPLE LOGIN

Relinquished by:	Date/Time:	Received by:	Date/Time
Kenny Bundy	7/18/03 15:49		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

ALERT INFORMATION:

Client Name: Pennzoil Quaker State (Consultant Shaw E&I)

Client Number: 3277

Project Name: Etowah, and Huntington Trminal. 2 projects. I believe that both are level III

Project Number:

Date to receive cooler: 7/19/03

How many samples are there: Etowah, has 30 sets of samples.,

Matrix of samples: Huntington Terminal Etowah is water

What tests will be on the COC? Not specifically sure.

Will a copy of the COC be faxed?

PURPOSE OF THIS ALERT:

Heads up for incoming project: Heads up big projects coming in. Etowah about 30 samples, not sure for Huntington terminal.
or
Project changes prior to sample login:

LOGIN: REMEMBER TO ALWAYS PRINT CLIENT NOTES, WHEN APPLICABLE.

339953

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for at least 10% of the analyses.

TestAmerica
INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Kbundy	**Phone:**		NC Closed	☑
Client Name:	Pennzoil Quaker St	**Sample Range:**	03-a111888	Date Closed	7/22/2003
Client Contact:	George Robertson	**SDG:**	339953		
Client Account:	3277	**Analyst:**			
Date Created:	7/21/2003	**Supervisor:**	Mark Hollingsworth		
NC #:		**NC Type:**			

Process:	Other NC/Process: See Comment Section Below	**Corrected By:**	sgracey
Action:	Corrected action not chosen	**Closed:** ☑	Sgracey

Process:	Other NC/Process: See Comment Section Below	**Corrected By:**	kenny bundy
Action:	Corrected action not chosen	**Closed:** ☑	Kbundy

Comments:

Comment added by: Kbundy on 7/22/2003 3:39:28 PM
NC closed with out comments

****

Comment added by: Kbundy on 7/22/2003 12:39:50 PM
Per George Robertson cancel sample 11098 or our ID 03-a111888

****

Comment added by: Kbundy on 7/22/2003 8:52:32 AM
Sample 03-a111895 the client sample ID was entered incorrectly in LIMS, I've changed it to match the COC. Since the sample 03-a111888 is water, I'll call the client to confirm, what they want.

****

SUMMARY OF ANALYTICAL RESULTS

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

8/ 4/03

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117 ETOWAH TERMINAL
Project Number: 845335.
Laboratory Project Number: 339953.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
11098	03-A111888	7/18/03
10093	03-A111889	7/18/03
10094	03-A111890	7/18/03
10095	03-A111891	7/18/03
10096	03-A111892	7/18/03
10097	03-A111893	7/18/03
10098	03-A111894	7/18/03
12096	03-A111895	7/18/03
10093	03-A111896	7/18/03

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ANALYTICAL TESTING CORPORATION

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L. Norton Report Date: 8/ 4/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 846335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111888
Sample ID: 11098
Sample Type: Ground water
Site ID:

Date Collected: 7/18/03
Time Collected: 10:40
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	MDL	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111889
Sample ID: 10093
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:15
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.9	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111890
Sample ID: 10094
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:35
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	0.570	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111891
Sample ID: 10095
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:50
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.3	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111892
Sample ID: 10096
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:10
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	3.05	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111893
Sample ID: 10097
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:18
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	86.5	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111894
Sample ID: 10098
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:27
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.7	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111895
Sample ID: 12096
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 10:40
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.2	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	2.94	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A111896
Sample ID: 10093
Sample Type: Soil
Site ID:

Date Collected: 7/18/03
Time Collected: 9:15
Date Received: 7/19/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.4	%			7/23/03	17:00	M. Ricke	CLP	8191

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Lead	< 0.500	mg/l	5.0	105	7/24/03	6010B
TCLP Extraction	Initiated				7/22/03	1311

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
@ = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 7/19/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	< 0.500	52.5	50.0	105	80 - 120	8714	Duplicate

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	5.00	5.78	116	80 - 120	8714

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117 ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 7/19/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Lead	< 0.500	mg/l	8714	7/24/03	12:51

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339953

West Virginia Division of Environmental Protection
Office of Water Resources

TESTAMERICA - NASHVILLE

is hereby certified to perform wastewater analyses (as listed on Attachment I) for the purpose of determining compliance with the requirements of the State's natural resources and environmental programs or when required by an order issued by the Division.

This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control procedures, records, and proficiency of the laboratory have been examined and found to be acceptable.

219
Certificate Number

06-06-00
Date Issued

Dan E Caldwell
Quality Assurance Officer

Allyn S. Turner
Chief

This certificate is the property of the Division of Environmental Protection

Attachment I

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

ANNUAL CERTIFIED PARAMETER LIST

for

TESTAMERICA ANALYTICAL TESTING CORPORATION

Nashville, Tennessee

PARAMETERS CERTIFIED

LIMITED CHEMISTRY: Acidity[EPA 305.1], Alkalinity[EPA 310.1], Bromide[EPA 300.0/SW 9056], Chloride [EPA 325.1/300.0, SW 9250/9251/SW 9056], Color(ALPH) [EPA 110.2], Cyanide(Total)[EPA 335.3/335.4, SW 9012A/9013], Fluoride[EPA 340.2/300.0, SW 9056/9214], Oil & Grease[EPA 413.1/1664A/SW 9070A/ 9071B], Phenolics(Total)[EPA 420.2, SW 9065/9066], Sulfate[EPA 375.4/300.0, SW 9056/9038], Sulfide[EPA 376.1/376.2, SW 9030A/9034], Surfactants(MBAS)[EPA 425.1], Phosphorus[Total[EPA 365.4] and Ortho[EPA 365.2], Hardness[EPA 130.1/200.7, SW 6010B, SM 2340B], Specific Conductance[EPA 120.1/SW 9050A], Turbidity[EPA 180.1], Sulfite[EPA 377.1], pH(Hydrogen ion)[EPA 150.1/SW 9040B/9045C]***

Demand: Biochemical Oxygen Demand(BOD,CBOD)[EPA 405.1/SM 5210B], Chemical Oxygen Demand (COD)[EPA 410.4], Total Organic Carbon(TOC)[EPA 415.1/SW 9060]***

Nitrogen: Ammonia[EPA 350.1], Kjeldahl[EPA 351.2], Nitrate[EPA 353.2/300.0, SW 9056], Nitrate-Nitrite[EPA 353.2/300.0, SW 9056], Nitrite[EPA 353.2/300.0, SW 9056]***

Solids: Dissolved[EPA 160.1], Settleable[EPA 160.5], Suspended[EPA 160.2], Total[EPA 160.3], Volatile[EPA 160.4]***

ATOMIC ABSORPTION(CVAA,ICP)[EPA 200.7, SW 6010B]: Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury[EPA 245.1, SW 7470A/ 7471A], Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc***

GC & GC/MS: Purgeable Halocarbons[EPA 601], Purgeable Aromatics[EPA 602], Organochlorine Pesticides [EPA 608, SW 8081A], Polychlorinated Byphenyls[EPA 608, SW 8082], Polynuclear Aromatic Hydrocarbons [EPA 610GC/HPLC, SW 8100/8310], Organophosphorus Pesticides[EPA 614, SW 8141A], Chlorinated Herbicides[EPA 615, SW 8151A], Purgeables[EPA 624, SW 8260B], Semivolatile Organic Compounds [EPA 625, SW 8270C], EDB & DBCP[EPA 504.1, SW 8011], Total Petroleum Hydrocarbons (GRO and DRO)[SW 8015B], Nonhalogenated Volatile Organics[SW 8015B], Halogenated and Aromatic Volatiles[SW 8021B], MTBE, Isopropyl ether, and Naphthalene [EPA 602/624, SW 8021B/8260B], Carbonyl Compounds[SW 8315A], Explosives[SW 8330] ***

WASTE CHARACTERISTICS: Corrosivity[SW 1110/9040B/9045C], Ignitability[SW 1010], Reactivity (CN^-)[SW-846 Chpt. 7, 9012A], Reactivity($S^=$)[SW-846 Chpt. 7, 9030B], Paint Filter Test[SW 9095A]***

TOXICITY: Toxicity Characteristic Leaching Procedure-TCLP[1311]***

MISCELLANEOUS: Total Organic Halide(TOX)[EPA 450.1, SM 5320B, SW 9020B/9023], Hexavalent Chromium[EPA 218.4, SM 3500 Cr D, SW 7196A/3060A/7196A]***

This laboratory may test ONLY for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires: **February 29, 2004** Certificate No. **219**

Amended March 11, 2003

John Joseph
Quality Assurance Officer

APPENDIX D

GROUNDWATER CHAIN-OF-CUSTODY AND CERTIFICIATE-OF-ANALYSIS COPIES

TestAmerica
ANALYTICAL TESTING CORPORATION

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9/15/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117-ETOWAH TERMINAL
Project Number: 845335.
Laboratory Project Number: 343366.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
Trip Blank	03-A127747	
20003S	03-A127748	8/15/03
20011	03-A127749	8/15/03
20028	03-A127750	8/15/03
20003D	03-A127751	8/15/03
20007S	03-A127752	8/15/03
20023	03-A127753	8/15/03
20002S	03-A127754	8/15/03
20002D	03-A127755	8/15/03
20010	03-A127756	8/15/03
20012	03-A127757	8/15/03
20013	03-A127758	8/15/03
20014	03-A127759	8/15/03
20015	03-A127760	8/15/03
20016	03-A127761	8/15/03
20017	03-A127762	8/15/03
20019	03-A127763	8/15/03

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Sample Identification	Lab Number	Collection Date
20020	03-A127764	8/15/03
20022	03-A127765	8/15/03
20027	03-A127766	8/15/03
20029	03-A127767	8/15/03
22002D	03-A127768	8/15/03
22022	03-A127769	8/15/03
20001	03-A127770	8/15/03
20004	03-A127771	8/15/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Report Date: 9/15/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127747
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	16:28	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	16:28	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	16:28	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	16:28	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	16:28	C. Spry	8260B	2406

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127748
Sample ID: 20003S
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 13:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.322	mg/l	0.0050	5.0	8/21/03	11:31	C. Spry	8260B	2410
Toluene	0.0030	mg/l	0.0010	1.0	8/20/03	23:53	C. Spry	8260B	2406
Ethylbenzene	0.150	mg/l	0.0010	1.0	8/20/03	23:53	C. Spry	8260B	2406
Xylenes (Total)	0.282	mg/l	0.0010	1.0	8/20/03	23:53	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0140	mg/l	0.0010	1.0	8/20/03	23:53	C. Spry	8260B	2406

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127749
Sample ID: 20011
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:10
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TPH (Gasoline Range)	0.153	mg/l	0.100	1.0	8/24/03	9:18	I. Ahmed	8015B	3813
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:00	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:00	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:00	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	17:00	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0106	mg/l	0.0010	1.0	8/20/03	17:00	C. Spry	8260B	2406

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 129.
VOA Surr 1,2-DCA-d4	105.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	110.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127749
Sample ID: 20011
Project: 845335
Page 2

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127750
Sample ID: 20028
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 12:25
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	9:52	I. Ahmed	8015B	3813
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:11	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:11	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:11	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	20:11	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0051	mg/l	0.0010	1.0	8/20/03	20:11	C. Spry	8260B	2406

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.
VOA Surr 1,2-DCA-d4	99.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	110.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127750
Sample ID: 20028
Project: 845335
Page 2

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127751
Sample ID: 20003D
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 13:10
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.157	mg/l	0.100	1.0	8/22/03	18:11	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	10:27	I. Ahmed	8015B	3813
TPH (Diesel Range)	<0.100	mg/l	0.100	1.0	8/22/03	18:11	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:43	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:43	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	20:43	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	20:43	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	20:43	C. Spry	8260B	2406

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	95.	61. - 134.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127751
Sample ID: 20003D
Project: 845335

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.
VOA Surr 1,2-DCA-d4	102.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	109.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127752
Sample ID: 20007S
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 12:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	5.92	mg/l	1.00	10.0	8/22/03	18:32	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	1.51	mg/l	0.100	1.0	8/24/03	11:02	I. Ahmed	8015B	3813
TPH (Diesel Range)	8.90	mg/l	1.03	10.0	8/22/03	18:32	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	0.0700	mg/l	0.0010	1.0	8/20/03	21:14	C. Spry	8260B	2406
Toluene	0.0080	mg/l	0.0010	1.0	8/20/03	21:14	C. Spry	8260B	2406
Ethylbenzene	0.0051	mg/l	0.0010	1.0	8/20/03	21:14	C. Spry	8260B	2406
Xylenes (Total)	0.0496	mg/l	0.0010	1.0	8/20/03	21:14	C. Spry	8260B	2406
Methyl-t-butyl ether	1.23	mg/l	0.0200	20.0	8/21/03	10:59	C. Spry	8260B	2410
MISCELLANEOUS GC PARAMETERS									
Ethylene glycol	<10.0	mg/l	10.0	1.0	8/25/03	11:42	Carmichael	8015B	3820

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	970. ml	1.00 ml	8/19/03		M. Ricke	3510

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127752
Sample ID: 20007S
Project: 845335

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	102.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	107.	71. - 132.
VOA Surr, DBFM	98.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127753
Sample ID: 20023
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 14:35
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 2.50	mg/l	1.00	10.0	8/23/03	9:30	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	2.83	mg/l	0.100	1.0	8/24/03	11:36	I. Ahmed	8015B	3813
TPH (Diesel Range)	30.0	mg/l	2.50	10.0	8/23/03	9:30	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	0.0608	mg/l	0.0010	1.0	8/20/03	19:07	C. Spry	8260B	2406
Toluene	0.0041	mg/l	0.0010	1.0	8/20/03	19:07	C. Spry	8260B	2406
Ethylbenzene	0.0038	mg/l	0.0010	1.0	8/20/03	19:07	C. Spry	8260B	2406
Xylenes (Total)	0.0044	mg/l	0.0010	1.0	8/20/03	19:07	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0023	mg/l	0.0010	1.0	8/20/03	19:07	C. Spry	8260B	2406

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	400. ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	163. #	69. - 129.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127753
Sample ID: 20023
Project: 845335

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	70. - 133.
VOA Surr Toluene-d8	99.	76. - 123.
VOA Surr, 4-BFB	113.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
Trph-d surrogate recovery diluted out due to sample matrix.
Elevated BTEX surragate due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127754
Sample ID: 20002S
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 13:25
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.260	mg/l	0.200	2.0	8/23/03	9:49	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	0.159	mg/l	0.100	1.0	8/24/03	12:20	I. Ahmed	8015B	3813
TPH (Diesel Range)	1.56	mg/l	0.200	2.0	8/23/03	9:49	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	0.0012	mg/l	0.0010	1.0	8/20/03	21:46	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	21:46	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	21:46	C. Spry	8260B	2406
Xylenes (Total)	0.0058	mg/l	0.0010	1.0	8/20/03	21:46	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0137	mg/l	0.0010	1.0	8/20/03	21:46	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.90	pH Units		1.0	8/19/03	14:55	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127754
Sample ID: 20002S
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	62.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	92.	69. - 129.
VOA Surr 1,2-DCA-d4	101.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	107.	71. - 132.
VOA Surr, DBFM	101.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
DRO surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127755
Sample ID: 20002D
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 13:40
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.121	mg/l	0.100	1.0	8/22/03	19:34	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	12:55	I. Ahmed	8015B	3813
TPH (Diesel Range)	<0.100	mg/l	0.100	1.0	8/22/03	19:34	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:18	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:18	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:18	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	22:18	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	22:18	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.20	pH Units		1.0	8/19/03	14:55	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127755
Sample ID: 20002D
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	98.	61. - 134.
BTEX/GRO Surr.. a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	105.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	107.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127756
Sample ID: 20010
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 8:30
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.387	mg/l	0.100	1.0	8/22/03	22:38	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	13:30	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.129	mg/l	0.100	1.0	8/22/03	22:38	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:50	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:50	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	22:50	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	22:50	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	22:50	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.70	pH Units		1.0	8/19/03	14:55	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127756
Sample ID: 20010
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	80.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127757
Sample ID: 20012
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:20
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	10.8	mg/l	2.00	20.0	8/23/03	10:09	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	14:04	I. Ahmed	8015B	3813
TPH (Diesel Range)	21.0	mg/l	2.00	20.0	8/23/03	10:09	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:32	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:32	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	17:32	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	17:32	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	17:32	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	7.40	pH Units		1.0	8/19/03	14:55	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127757
Sample ID: 20012
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 129.
VOA Surr 1,2-DCA-d4	102.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	108.	71. - 132.
VOA Surr, DBFM	101.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127758
Sample ID: 20013
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:25
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.353	mg/l	0.100	1.0	8/22/03	23:18	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	14:39	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.647	mg/l	0.100	1.0	8/22/03	23:18	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	23:22	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	23:22	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	23:22	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	23:22	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	23:22	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	5.70	pH Units		1.0	8/19/03	15:00	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127758
Sample ID: 20013
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	67.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	107.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127759
Sample ID: 20014
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:45
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.402	mg/l	0.100	1.0	8/22/03	23:38	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	16:24	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.853	mg/l	0.100	1.0	8/22/03	23:38	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:13	C. Spry	8260B	2410
Toluene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:13	C. Spry	8260B	2410
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:13	C. Spry	8260B	2410
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/21/03	6:13	C. Spry	8260B	2410
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/21/03	6:13	C. Spry	8260B	2410
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.30	pH Units		1.0	8/19/03	15:00	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127759
Sample ID: 20014
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	72.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 129.
VOA Surr 1,2-DCA-d4	103.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	109.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127760
Sample ID: 20015
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 8:55
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.143	mg/l	0.100	1.0	8/22/03	23:57	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	16:59	I. Ahmed	8015B	3813
TPH (Diesel Range)	<0.100	mg/l	0.100	1.0	8/22/03	23:57	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:45	C. Spry	8260B	2410
Toluene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:45	C. Spry	8260B	2410
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/21/03	6:45	C. Spry	8260B	2410
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/21/03	6:45	C. Spry	8260B	2410
Methyl-t-butyl ether	0.0012	mg/l	0.0010	1.0	8/21/03	6:45	C. Spry	8260B	2410
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	5.70	pH Units		1.0	8/19/03	15:00	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127760
Sample ID: 20015
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	79.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 129.
VOA Surr 1,2-DCA-d4	101.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	105.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127761
Sample ID: 20016
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	5.80	mg/l	5.00	50.0	8/23/03	23:16	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	1.36	mg/l	0.100	1.0	8/24/03	17:33	I. Ahmed	8015B	3813
TPH (Diesel Range)	16.4	mg/l	5.00	50.0	8/23/03	23:16	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	0.0010	mg/l	0.0010	1.0	8/20/03	18:03	C. Spry	8260B	2406
Toluene	0.0017	mg/l	0.0010	1.0	8/20/03	18:03	C. Spry	8260B	2406
Ethylbenzene	0.0015	mg/l	0.0010	1.0	8/20/03	18:03	C. Spry	8260B	2406
Xylenes (Total)	0.0043	mg/l	0.0010	1.0	8/20/03	18:03	C. Spry	8260B	2406
Methyl-t-butyl ether	0.0010	mg/l	0.0010	1.0	8/20/03	18:03	C. Spry	8260B	2406
METALS									
Lead, Dissolved	0.0500	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.00	pH Units		1.0	8/19/03	15:00	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127761
Sample ID: 20016
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	130. #	69. - 129.
VOA Surr 1,2-DCA-d4	102.	70. - 133.
VOA Surr Toluene-d8	99.	76. - 123.
VOA Surr, 4-BFB	109.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127762
Sample ID: 20017
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:20
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	2.10	mg/l	2.00	20.0	8/23/03	23:36	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	1.26	mg/l	0.100	1.0	8/24/03	18:08	I. Ahmed	8015B	3813
TPH (Diesel Range)	17.7	mg/l	2.00	20.0	8/23/03	23:36	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	0.0035	mg/l	0.0010	1.0	8/20/03	18:35	C. Spry	8260B	2406
Toluene	0.0014	mg/l	0.0010	1.0	8/20/03	18:35	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	18:35	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	18:35	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/20/03	18:35	C. Spry	8260B	2406
METALS									
Lead, Dissolved	0.0400	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.50	pH Units		1.0	8/19/03	15:05	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127762
Sample ID: 20017
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	130. #	69. - 129.
VOA Surr 1,2-DCA-d4	104.	70. - 133.
VOA Surr Toluene-d8	99.	76. - 123.
VOA Surr, 4-BFB	114.	71. - 132.
VOA Surr, DBFM	101.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127763
Sample ID: 20019
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 9:15
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.248	mg/l	0.200	2.0	8/23/03	11:09	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	18:43	I. Ahmed	8015B	3813
TPH (Diesel Range)	1.54	mg/l	0.200	2.0	8/23/03	11:09	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:17	C. Spry	8260B	2410
Toluene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:17	C. Spry	8260B	2410
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:17	C. Spry	8260B	2410
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/21/03	7:17	C. Spry	8260B	2410
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/21/03	7:17	C. Spry	8260B	2410
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	5.90	pH Units		1.0	8/19/03	14:45	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127763
Sample ID: 20019
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	98.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	102.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Laboratory Number: 03-A127764
Sample ID: 20020
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	100.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	100.	76. - 123.
VOA Surr, 4-BFB	108.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127764
Sample ID: 20020
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:35
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	<0.500	mg/l	0.500	5.0	8/23/03	11:29	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	19:18	I. Ahmed	8015B	3813
TPH (Diesel Range)	2.89	mg/l	0.500	5.0	8/23/03	11:29	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:49	C. Spry	8260B	2410
Toluene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:49	C. Spry	8260B	2410
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/21/03	7:49	C. Spry	8260B	2410
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/21/03	7:49	C. Spry	8260B	2410
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/21/03	7:49	C. Spry	8260B	2410
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.20	pH Units		1.0	8/19/03	14:45	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127765
Sample ID: 20022
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 14:55
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	<0.200	mg/l	0.200	2.0	8/23/03	11:49	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	0.877	mg/l	0.100	1.0	8/24/03	19:52	I. Ahmed	8015B	3813
TPH (Diesel Range)	2.04	mg/l	0.200	2.0	8/23/03	11:49	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/21/03	8:20	C. Spry	8260B	2410
Toluene	<0.0010	mg/l	0.0010	1.0	8/21/03	8:20	C. Spry	8260B	2410
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/21/03	8:20	C. Spry	8260B	2410
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/21/03	8:20	C. Spry	8260B	2410
Methyl-t-butyl ether	<0.0010	mg/l	0.0010	1.0	8/21/03	8:20	C. Spry	8260B	2410
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.10	pH Units		1.0	8/19/03	14:45	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127765
Sample ID: 20022
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	86.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	128.	69. - 129.
VOA Surr 1,2-DCA-d4	94.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	109.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127766
Sample ID: 20027
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 9:45
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.140	mg/l	0.100	1.0	8/23/03	1:55	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	20:27	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.705	mg/l	0.100	1.0	8/23/03	1:55	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:03	B.Herford	8260B	6974
Toluene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:03	B.Herford	8260B	6974
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:03	B.Herford	8260B	6974
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/27/03	20:03	B.Herford	8260B	6974
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/27/03	20:03	B.Herford	8260B	6974
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.20	pH Units		1.0	8/19/03	14:45	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127766
Sample ID: 20027
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	82.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	83.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	96.	71. - 132.
VOA Surr, DBFM	91.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127767
Sample ID: 20029
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 14:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.268	mg/l	0.100	1.0	8/23/03	2:15	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/24/03	21:02	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.325	mg/l	0.100	1.0	8/23/03	2:15	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:32	B.Herford	8260B	6974
Toluene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:32	B.Herford	8260B	6974
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/27/03	20:32	B.Herford	8260B	6974
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/27/03	20:32	B.Herford	8260B	6974
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/27/03	20:32	B.Herford	8260B	6974
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.20	pH Units		1.0	8/19/03	14:50	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127767
Sample ID: 20029
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	86.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	82.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	91.	71. - 132.
VOA Surr, DBFM	90.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127768
Sample ID: 22002D
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 8:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	<0.100	mg/l	0.100	1.0	8/23/03	2:35	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/27/03	14:00	D.Ramey	8015B	3815
TPH (Diesel Range)	0.108	mg/l	0.100	1.0	8/23/03	2:35	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:00	B.Herford	8260B	6974
Toluene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:00	B.Herford	8260B	6974
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:00	B.Herford	8260B	6974
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/27/03	21:00	B.Herford	8260B	6974
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/27/03	21:00	B.Herford	8260B	6974
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.30	pH Units		1.0	8/19/03	14:50	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127768
Sample ID: 22002D
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	102.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	99.	69. - 129.
VOA Surr 1,2-DCA-d4	83.	70. - 133.
VOA Surr Toluene-d8	99.	76. - 123.
VOA Surr, 4-BFB	93.	71. - 132.
VOA Surr, DBFM	91.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127769
Sample ID: 22022
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 8:10
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	<0.500	mg/l	0.500	5.0	8/23/03	12:29	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	0.822	mg/l	0.100	1.0	8/27/03	14:31	D.Ramey	8015B	3815
TPH (Diesel Range)	3.70	mg/l	0.500	5.0	8/23/03	12:29	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:29	B.Herford	8260B	6974
Toluene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:29	B.Herford	8260B	6974
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:29	B.Herford	8260B	6974
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/27/03	21:29	B.Herford	8260B	6974
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/27/03	21:29	B.Herford	8260B	6974
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.10	pH Units		1.0	8/19/03	14:50	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127769
Sample ID: 22022
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	105.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	122.	69. - 129.
VOA Surr 1,2-DCA-d4	82.	70. - 133.
VOA Surr Toluene-d8	104.	76. - 123.
VOA Surr, 4-BFB	94.	71. - 132.
VOA Surr, DBFM	91.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127770
Sample ID: 20001
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 14:20
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.106	mg/l	0.100	1.0	8/23/03	3:14	L. Watson	8015B/3510	9983
TPH (Gasoline Range)	0.117	mg/l	0.100	1.0	8/24/03	21:36	I. Ahmed	8015B	3813
TPH (Diesel Range)	0.121	mg/l	0.100	1.0	8/23/03	3:14	L. Watson	8015B/3510	9983
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/20/03	19:39	C. Spry	8260B	2406
Toluene	<0.0010	mg/l	0.0010	1.0	8/20/03	19:39	C. Spry	8260B	2406
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/20/03	19:39	C. Spry	8260B	2406
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/20/03	19:39	C. Spry	8260B	2406
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/20/03	19:39	C. Spry	8260B	2406
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	6.20	pH Units		1.0	8/19/03	15:05	S. Roberts	9040/150.1	3802

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127770
Sample ID: 20001
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	86.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr, 4-BFB	109.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A127771
Sample ID: 20004
Sample Type: Water
Site ID:

Date Collected: 8/15/03
Time Collected: 12:45
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.145	mg/l	0.100	1.0	8/21/03	3:49	M.Jarrett	8015B/3510	8147
TPH (Gasoline Range)	<0.100	mg/l	0.100	1.0	8/27/03	16:17	D.Ramey	8015B	3815
TPH (Diesel Range)	<0.100	mg/l	0.100	1.0	8/21/03	5:09	L. Watson	8015B/3510	5477
VOLATILE ORGANICS									
Benzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:58	B.Herford	8260B	6974
Toluene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:58	B.Herford	8260B	6974
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	8/27/03	21:58	B.Herford	8260B	6974
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	8/27/03	21:58	B.Herford	8260B	6974
Methyl-t-butyl ether	<0.0100	mg/l	0.0100	1.0	8/27/03	21:58	B.Herford	8260B	6974
METALS									
Lead, Dissolved	<0.0050	mg/l	0.0050	1.0	8/21/03	10:21	C. Martin	6010B	3806
MISCELLANEOUS CHEMISTRY									
pH	4.60	pH Units		1.0	8/19/03	14:50	S. Roberts	9040/150.1	3804

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	8/19/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A127771
Sample ID: 20004
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	8/19/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	86.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	99.	69. - 129.
VOA Surr 1,2-DCA-d4	84.	70. - 133.
VOA Surr Toluene-d8	102.	76. - 123.
VOA Surr, 4-BFB	95.	71. - 132.
VOA Surr, DBFM	94.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 1
Laboratory Receipt Date: 8/18/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	0.106	0.937	1.00	83	59. - 125.	9983	03-A127770
TPH (Gasoline Range)	mg/l	< 0.0740	1.14	1.00	114	56. - 134.	3813	blank
TPH (Gasoline Range)	mg/l	< 0.100	1.30	1.00	130	56. - 134.	3815	03-A127771
TPH (Diesel Range)	mg/l	< 0.100	0.905	1.00	90	35. - 130.	5477	BLANK
TPH (Diesel Range)	mg/l	0.121	0.937	1.00	82	35. - 130.	9983	03-A127770
BTEX/GRO Surr., a,a,a-TFT	% Recovery				115	69 - 129	3813	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				124	69 - 129	3815	
VOA PARAMETERS								
Benzene	mg/l	0.0008	0.0590	0.0500	116	68 - 136	2406	03-A127770
Benzene	mg/l	< 0.0010	0.0519	0.0500	104	68 - 136	6974	03-A127771
Toluene	mg/l	< 0.0010	0.0561	0.0500	112	73 - 133	2406	03-A127770
Toluene	mg/l	< 0.0010	0.0552	0.0500	110	73 - 133	6974	03-A127771
VOA Surr 1,2-DCA-d4	% Rec				96	70 - 133	2406	
VOA Surr 1,2-DCA-d4	% Rec				84	70 - 133	6974	
VOA Surr Toluene-d8	% Rec				99	76 - 123	2406	
VOA Surr Toluene-d8	% Rec				107	76 - 123	6974	
VOA Surr, 4-BFB	% Rec				104	71 - 132	2406	
VOA Surr, 4-BFB	% Rec				96	71 - 132	6974	
VOA Surr, DBFM	% Rec				100	74 - 128	2406	
VOA Surr, DBFM	% Rec				92	74 - 128	6974	
METALS								
Lead, Dissolved	mg/l	< 0.0050	0.0570	0.0500	114	80 - 120	3806	03-A127770

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 2
Laboratory Receipt Date: 8/18/03

Ethylene glycol	mg/l	< 10.0	53.0	50.0	106	40 - 140	3820	03-A127752
Ethylene glycol	mg/l	< 10.0	45.4	50.0	91	40 - 140	3820	03-A127752

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/l	0.937	0.955	1.90	26.	9983
TPH (Gasoline Range)	mg/l	1.14	1.09	4.48	24.	3813
TPH (Gasoline Range)	mg/l	1.30	1.23	5.53	24.	3815
TPH (Diesel Range)	mg/l	0.905	0.854	5.80	41.	5477
TPH (Diesel Range)	mg/l	0.937	0.955	1.90	41.	9983
BTEX/GRO Surr., a,a,a-TFT	% Recovery		114.			3813
BTEX/GRO Surr., a,a,a-TFT	% Recovery		123.			3815
VOA PARAMETERS						
Benzene	mg/l	0.0590	0.0580	1.71	22.	2406
Benzene	mg/l	0.0519	0.0496	4.53	22.	6974
Toluene	mg/l	0.0561	0.0559	0.36	22.	2406
Toluene	mg/l	0.0552	0.0518	6.36	22.	6974
VOA Surr 1,2-DCA-d4	% Rec		98.			2406
VOA Surr 1,2-DCA-d4	% Rec		83.			6974
VOA Surr Toluene-d8	% Rec		99.			2406
VOA Surr Toluene-d8	% Rec		104.			6974
VOA Surr, 4-BFB	% Rec		107.			2406
VOA Surr, 4-BFB	% Rec		95.			6974
VOA Surr, DBFM	% Rec		102.			2406
VOA Surr, DBFM	% Rec		95.			6974

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 3
Laboratory Receipt Date: 8/18/03

MISC PARAMETERS						
Ethylene glycol	mg/l	53.0	45.4	15.45	50	3820

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/l	1.00	0.886	89	72 - 125	3813
TPH (Gasoline Range)	mg/l	1.00	1.11	111	72 - 125	3815
BTEX/GRO Surr., a,a,a-TFT	% Recovery			122	69 - 129	3813
BTEX/GRO Surr., a,a,a-TFT	% Recovery			116	69 - 129	3815
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/l	1.00	0.576	58 #	59 - 125	9983
TPH (Diesel Range)	mg/l	1.00	0.792	79	35 - 130	5477
TPH (Diesel Range)	mg/l	1.00	0.576	58	35 - 130	9983
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0541	108	78 - 125	2406
Benzene	mg/l	0.0500	0.0547	109	78 - 125	2410
Benzene	mg/l	0.0500	0.0467	93	78 - 125	6974
Ethylbenzene	mg/l	0.0500	0.0524	105	79 - 125	2406
Ethylbenzene	mg/l	0.0500	0.0524	105	79 - 125	2410
Ethylbenzene	mg/l	0.0500	0.0501	100	79 - 125	6974
Toluene	mg/l	0.0500	0.0516	103	79 - 125	2406
Toluene	mg/l	0.0500	0.0519	104	79 - 125	2410
Toluene	mg/l	0.0500	0.0500	100	79 - 125	6974
Xylenes (Total)	mg/l	0.150	0.159	106	78 - 127	2406
Xylenes (Total)	mg/l	0.150	0.157	105	78 - 127	2410
Xylenes (Total)	mg/l	0.150	0.151	101	78 - 127	6974
Methyl-t-butyl ether	mg/l	0.0500	0.0583	117	71 - 135	2406
Methyl-t-butyl ether	mg/l	0.0500	0.0542	108	71 - 135	2410
Methyl-t-butyl ether	mg/l	0.0500	0.0475	95	71 - 135	6974
Ethylene glycol	mg/l	50.0	58.1	116	72 - 125	3820

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 4
Laboratory Receipt Date: 8/18/03

VOA Surr 1,2-DCA-d4	% Rec			100	70 - 133	2406
VOA Surr 1,2-DCA-d4	% Rec			97	70 - 133	2410
VOA Surr 1,2-DCA-d4	% Rec			83	70 - 133	6974
VOA Surr Toluene-d8	% Rec			100	76 - 123	2406
VOA Surr Toluene-d8	% Rec			99	76 - 123	2410
VOA Surr Toluene-d8	% Rec			104	76 - 123	6974
VOA Surr, 4-BFB	% Rec			106	71 - 132	2406
VOA Surr, 4-BFB	% Rec			103	71 - 132	2410
VOA Surr, 4-BFB	% Rec			96	71 - 132	6974
VOA Surr, DBFM	% Rec			104	74 - 128	2406
VOA Surr, DBFM	% Rec			103	74 - 128	2410
VOA Surr, DBFM	% Rec			94	74 - 128	6974
METALS						
Lead, Dissolved	mg/l	0.0500	0.0550	110	80 - 120	3806

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead, Dissolved	mg/l	< 0.0050	< 0.0050	N/A	15.	3806	03-A127770
pH	pH Units	6.20	6.20	0.00	15.	3802	03-A127770
pH	pH Units	4.60	4.50	2.20	15.	3804	03-A127771

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 0.100	mg/l	9983	8/22/03	16:47
TPH (Gasoline Range)	< 0.0740	mg/l	3813	8/24/03	8:43

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 5
Laboratory Receipt Date: 8/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
TPH (Gasoline Range)	< 0.0740	mg/l	3815	8/27/03	13:29
TPH (Diesel Range)	< 0.100	mg/l	5477	8/21/03	3:49
TPH (Diesel Range)	< 0.100	mg/l	9983	8/22/03	16:47
TPH Hi Surr., o-Terphenyl	114.	% Recovery	5477	8/21/03	3:49
BTEX/GRO Surr., a,a,a-TFT	93.	% Recovery	3813	8/24/03	8:43
BTEX/GRO Surr., a,a,a-TFT	101.	% Recovery	3815	8/27/03	13:29
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	2406	8/20/03	15:56
Benzene	< 0.0005	mg/l	2410	8/21/03	4:06
Benzene	< 0.0005	mg/l	6974	8/27/03	12:32
Ethylbenzene	< 0.0003	mg/l	2406	8/20/03	15:56
Ethylbenzene	< 0.0003	mg/l	2410	8/21/03	4:06
Ethylbenzene	< 0.0003	mg/l	6974	8/27/03	12:32
Toluene	< 0.0006	mg/l	2406	8/20/03	15:56
Toluene	< 0.0006	mg/l	2410	8/21/03	4:06
Toluene	< 0.0006	mg/l	6974	8/27/03	12:32
Xylenes (Total)	< 0.0009	mg/l	2406	8/20/03	15:56
Xylenes (Total)	< 0.0009	mg/l	2410	8/21/03	4:06
Xylenes (Total)	< 0.0009	mg/l	6974	8/27/03	12:32
Methyl-t-butyl ether	< 0.0005	mg/l	2406	8/20/03	15:56
Methyl-t-butyl ether	< 0.0005	mg/l	2410	8/21/03	4:06
Methyl-t-butyl ether	< 0.0005	mg/l	6974	8/27/03	12:32
VOA Surr 1,2-DCA-d4	101.	% Rec	2406	8/20/03	15:56
VOA Surr 1,2-DCA-d4	102.	% Rec	2410	8/21/03	4:06
VOA Surr 1,2-DCA-d4	85.	% Rec	6974	8/27/03	12:32
VOA Surr Toluene-d8	97.	% Rec	2406	8/20/03	15:56
VOA Surr Toluene-d8	97.	% Rec	2410	8/21/03	4:06
VOA Surr Toluene-d8	102.	% Rec	6974	8/27/03	12:32
VOA Surr, 4-BFB	107.	% Rec	2406	8/20/03	15:56
VOA Surr, 4-BFB	110.	% Rec	2410	8/21/03	4:06
VOA Surr, 4-BFB	98.	% Rec	6974	8/27/03	12:32

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS#5117-ETOWAH TERMINAL
Page: 6
Laboratory Receipt Date: 8/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, DBFM	103.	% Rec	2406	8/20/03	15:56
VOA Surr, DBFM	103.	% Rec	2410	8/21/03	4:06
VOA Surr, DBFM	93.	% Rec	6974	8/27/03	12:32
METALS					
Lead, Dissolved	< 0.0050	mg/l	3806	8/21/03	10:21
Ethylene glycol	< 10.0	mg/l	3820	8/25/03	3:53

* = Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 343366

343366

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for ~~at least 10%~~ 100% of the analyses.

GaR
8-8-03

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM BC#

343366

Client: Shaw

Cooler Received On: 8/14/03 And Opened On: 8/14/03 By: Paul R Buckingham II

(Signature)

1. Temperature of Cooler when opened 2.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2 front/back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

End of Form

Fe Ex Airbill #s: 838177410001, 838177409961 838177409980, 838177409946 838177409924

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

343366

Client Name: Shaw Environmental, Inc. Client #: 3277
Address: 1400B Ohio Ave.
ste/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304.768.2600 Fax: 304.768.4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: Kirk E. Curry

Project Name: PQS #5117 - Etowah Terminal
Project #: 845335
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: 8260B BTEX/MTBE	6010 Dissolved Lead	8270C SIMS	8021B TPH-GRO	8015B TPH-DRO/KRO GRO						REMARKS
20001	8-15-03	1420	G	Y	GW	~~1~~	7				1		X	X	X	X	X		127750				PAH extract
20001 MS	↓	1420	G	Y	GW	1	7				1		X	X	X	X	X		↓				and Hold
20001 MSD		1420	G	Y	GW	1	7				1		X	X	X	X	X						pending Analyses
20002 S		1325	G	Y	GW	1	7				1		X	X	X	X	X		127754				
20002 D		1340	G	Y	GW	1	7				1		X	X	X	X	X		55				Disolve Lead samples
~~20002~~ 20003 S		1300	G	~~N~~ Y	GW		2						X						127748				Field Filtered
20003 D		1310	G	~~N~~ Y	GW		7						X			X	X		127751				
20004		1245	G	Y	GW	1	7				1		X	X	X	X	X		127771				
20004 MS		1245	G	Y	GW	1	7				1		X	X	X	X	X						
20004 MSD	↓	1245	G	Y	GW	1	7				1		X	X	X	X	X		↓				

Special Instructions: See Attached Yellow Sheet regarding analyses (100% of analyses will be Level III Data Packages)
Extract and Hold PAH pending analytical results

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Kirk E. Curry	8-15-03	1745			
			Rly	8/18/03	8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

F 1 Ex Airbill #s: 838177410001, 838177409968, 83 7409980, 838177409946, 838177409924

2 of 3

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2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

343366

Client Name: Shaw Environmental, Inc. Client #: 3277
Address: 1400B Ohio Ave.
City/State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304.768.2606 Fax: 304.768.4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: Kirk E. Curry

Project Name: PQS # 5117 - Etowah Terminal
Project #: 845335
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other
Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)
Analyze For:
QC Deliverables: ___ None; ___ Level 2; ___ (Batch QC) X Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	8260B BTEX/MTBE	6010 Dissolved Lead	8270C SIMS	8021B TPH-GRO	8015B TPH-DRO/KHP ORO	8015B TPH-EG					REMARKS
200075	8-15-03	1200	G	~~Y~~ N	GW		9						X			X	X	X		127752			PAHs Extract
20016		0830	G	~~Y~~ N	GW	1	7				1		X	X	X	X	X			127756			and Hold
20011		1010	G	~~Y~~ N	GW		5						X			X			127748	49			pending Analyses
20012		1020	G	Y	GW	1	7				1		X	X	X	X	X			127757			
20013		1025	G	Y	GW	1	7				1		X	X	X	X	X			58			Dissolved Lead
20014		1045	G	Y	GW	1	7				1		X	X	X	X	X			59			Samples Field Filtered
20015		0855	G	Y	GW	1	7				1		X	X	X	X	X			60			
20016		1100	G	Y	GW	1	7				1		X	X	X	X	X			61			
20017		1120	G	Y	GW	1	7				1		X	X	X	X	X			62			
20019	↓	0915	G	Y	GW	1	7				1		X	X	X	X	X		127763				

Special Instructions: See Attached Yellow Sheet regarding Analysis (100% of analyses will be Level III Data Packages)
Extract and Hold PAHs, pending analytic results

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Kirk E. Curry	8-15-03	1745			
			Rly	8/16/03	8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

F. Ex Airbill #s: 838177410001, 838177409968, 83[illegible]409980, 838177409946, 838177409924

3 [illegible]3

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Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

343366

Client Name: Shaw Environmental, Inc. Client #: 3277
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Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: _____ PO#: _____

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
X Level 3
___ Level 4
Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify): LAB	Analyze For: 8260B BTEX/MTBE	8270C SIMS	6010 Dissolved Lead	8021B TPH-GRO	8015B TPH-DRO/KRO/ORO						REMARKS
20020	8-15-03	1135	G	Y	GW	1	7				1		X	X	X	X	X			127	764		PAHs Extract
20022		1455	G	Y	GW	1	7				1		X	X	X	X	X				65		and Hold
20023		1435	G	N	GW		7						X			X	X			127	753		Pending analyses
20027		0945	G	Y	GW	1	7				1		X	X	X	X	X				66		
20028		1225	G	N	GW		6						X			X				127	~~749~~	50	Dissolved Lead
20029		1400	G	Y	GW	1	7				1		X	X	X	X	X				67		Field Filtered
22002 D		0800	G	Y	GW	1	7				1		X	X	X	X	X				68		
22022		0810	G	Y	GW	1	7				1		X	X	X	X	X				69		
TB-8	Lab	Lab										2	X							127	747		

Special Instructions: See Attached page (Yellow Sheet) regarding Analyses (100% of analyses will be Level III Data Packages)
Extract and hold PAHs, pending analytical results

Relinquished By: Kirk E. Curry	Date: 8-15-03	Time: 1745	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [signature]	Date: 8/16/03	Time: 8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION

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800-765-0980 • 615-726-3404 Fax

9/30/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS #5117-ETOWAH TERMINA
Project Number: 845335.
Laboratory Project Number: 347074.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
20002S	03-A144765	8/15/03
20012	03-A144766	8/15/03
20013	03-A144767	8/15/03
20014	03-A144768	8/15/03
20016	03-A144769	8/15/03
20017	03-A144770	8/15/03
20019	03-A144771	8/15/03
20020	03-A144772	8/15/03
20022	03-A144773	8/15/03
20027	03-A144774	8/15/03
22022	03-A144775	8/15/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L Norton Report Date: 9/30/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144765
Sample ID: 20002S
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 13:25
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	0.00085	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Acenaphthylene	0.00027	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Anthracene	0.00032	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Fluorene	0.00132	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	0.0421	mg/l	0.00050	5	9/28/03	13:13	D. Harris	8270C-SIM	2948
Naphthalene	0.00348	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Phenanthrene	0.00186	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
Pyrene	0.00011	mg/l	0.00010	1	9/28/03	5:10	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.0378	mg/l	0.00050	5	9/28/03	13:13	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144765
Sample ID: 20002S
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	424. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	69.	40. - 96.
BNA Surr-Terphenyl-d14	56.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
SIMS 8270 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144766
Sample ID: 20012
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:20
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	0.00110	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Acenaphthylene	0.00028	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Anthracene	0.00025	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	0.00021	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Chrysene	0.00027	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Fluorene	0.00123	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	0.00021	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Naphthalene	0.00037	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Phenanthrene	0.00033	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
Pyrene	0.00119	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00559	mg/l	0.00010	1	9/28/03	5:44	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144766
Sample ID: 20012
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	281. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	77.	40. - 96.
BNA Surr-Terphenyl-d14	51.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
SIMS 8270 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144767
Sample ID: 20013
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:25
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Fluorene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:18	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144767
Sample ID: 20013
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	69.	34. - 107.
BNA Surr-2-Fluorobiphenyl	64.	40. - 96.
BNA Surr-Terphenyl-d14	71.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144768
Sample ID: 20014
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 10:45
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Fluorene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	6:53	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144768
Sample ID: 20014
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	66.	34. - 107.
BNA Surr-2-Fluorobiphenyl	59.	40. - 96.
BNA Surr-Terphenyl-d14	70.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144769
Sample ID: 20016
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:00
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Fluorene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00071	mg/l	0.00010	1	9/28/03	7:28	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144769
Sample ID: 20016
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	575. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	45.	40. - 96.
BNA Surr-Terphenyl-d14	40.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
SIMSv 8270 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144770
Sample ID: 20017
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:20
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Acenaphthylene	0.00067	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Anthracene	0.00026	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Fluorene	0.00180	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Phenanthrene	0.00134	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:03	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.0410	mg/l	0.00050	5	9/28/03	12:38	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144770
Sample ID: 20017
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	959. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	87.	40. - 96.
BNA Surr-Terphenyl-d14	66.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
SIMS 8270 surrogates outside QC range due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144771
Sample ID: 20019
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 9:15
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Fluorene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00052	mg/l	0.00010	1	9/28/03	8:37	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144771
Sample ID: 20019
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	97.	34. - 107.
BNA Surr-2-Fluorobiphenyl	70.	40. - 96.
BNA Surr-Terphenyl-d14	67.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144772
Sample ID: 20020
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 11:35
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	0.00045	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Fluorene	0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00025	mg/l	0.00010	1	9/28/03	13:48	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144772
Sample ID: 20020
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	86.	34. - 107.
BNA Surr-2-Fluorobiphenyl	65.	40. - 96.
BNA Surr-Terphenyl-d14	68.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144773
Sample ID: 20022
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 14:55
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Fluorene	0.00018	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00066	mg/l	0.00010	1	9/28/03	10:55	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144773
Sample ID: 20022
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	118. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	68.	40. - 96.
BNA Surr-Terphenyl-d14	60.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144774
Sample ID: 20027
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 9:45
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Fluorene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	11:30	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144774
Sample ID: 20027
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	75.	34. - 107.
BNA Surr-2-Fluorobiphenyl	64.	40. - 96.
BNA Surr-Terphenyl-d14	123. #	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Sampler: KIRK CURRY

Lab Number: 03-A144775
Sample ID: 22022
Sample Type: Ground water
Site ID:

Date Collected: 8/15/03
Time Collected: 8:10
Date Received: 8/16/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Acenaphthylene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Anthracene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Benzo(a)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Benzo(a)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Benzo(b)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Benzo(g,h,i)perylene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Benzo(k)fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Chrysene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Dibenz(a,h)anthracene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Fluoranthene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Fluorene	0.00014	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Indeno(1,2,3-cd)pyrene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
2-Methylnaphthalene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Naphthalene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Phenanthrene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
Pyrene	<0.00010	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948
1-Methylnaphthalene	0.00040	mg/l	0.00010	1	9/28/03	12:04	D. Harris	8270C-SIM	2948

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A144775
Sample ID: 22022
Project: 845335

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	8/19/03		M. Ricke	3510C

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	84.	34. - 107.
BNA Surr-2-Fluorobiphenyl	65.	40. - 96.
BNA Surr-Terphenyl-d14	68.	26. - 106.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Page: 1
Laboratory Receipt Date: 9/17/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00071	71	28 - 106	2948
Acenaphthylene	mg/l	0.00100	0.00066	66	26 - 106	2948
Anthracene	mg/l	0.00100	0.00077	77	30 - 116	2948
Benzo(a)anthracene	mg/l	0.00100	0.00087	87	38 - 128	2948
Benzo(a)pyrene	mg/l	0.00100	0.00084	84	34 - 117	2948
Benzo(b)fluoranthene	mg/l	0.00100	0.00092	92	37 - 132	2948
Benzo(g,h,i)perylene	mg/l	0.00100	0.00064	64	28 - 122	2948
Benzo(k)fluoranthene	mg/l	0.00100	0.00099	99	35 - 128	2948
Chrysene	mg/l	0.00100	0.00093	93	42 - 126	2948
Dibenz(a,h)anthracene	mg/l	0.00100	0.00069	69	35 - 124	2948

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Page: 2
Laboratory Receipt Date: 9/17/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2-Methylnaphthalene	mg/l	0.00100	0.00061	61	31 - 108	2948
Naphthalene	mg/l	0.00100	0.00065	65	9 - 120	2948
Phenanthrene	mg/l	0.00100	0.00082	82	34 - 116	2948
Pyrene	mg/l	0.00100	0.00087	87	35 - 118	2948
1-Methylnaphthalene	mg/l	0.00100	0.00061	61	31 - 112	2948
BNA Surr-Nitrobenzene-d5	% Rec			68	34 - 107	2948
BNA Surr-2-Fluorobiphenyl	% Rec			63	40 - 96	2948
BNA Surr-Terphenyl-d14	% Rec			70	26 - 106	2948

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	2948	9/26/03	17:16
Acenaphthylene	< 0.00010	mg/l	2948	9/26/03	17:16
Anthracene	< 0.00010	mg/l	2948	9/26/03	17:16
Benzo(a)anthracene	< 0.00010	mg/l	2948	9/26/03	17:16
Benzo(a)pyrene	< 0.00010	mg/l	2948	9/26/03	17:16
Benzo(b)fluoranthene	< 0.00010	mg/l	2948	9/26/03	17:16

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845335
Project Name: PQS #5117-ETOWAH TERMINA
Page: 3
Laboratory Receipt Date: 9/17/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(g,h,i)perylene	< 0.00010	mg/l	2948	9/26/03	17:16
Benzo(k)fluoranthene	< 0.00010	mg/l	2948	9/26/03	17:16
Chrysene	< 0.00010	mg/l	2948	9/26/03	17:16
Dibenz(a,h)anthracene	< 0.00010	mg/l	2948	9/26/03	17:16
Fluoranthene	< 0.00010	mg/l	2948	9/26/03	17:16
Fluorene	< 0.00010	mg/l	2948	9/26/03	17:16
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	2948	9/26/03	17:16
2-Methylnaphthalene	< 0.00010	mg/l	2948	9/26/03	17:16
Naphthalene	< 0.00010	mg/l	2948	9/26/03	17:16
Phenanthrene	< 0.00010	mg/l	2948	9/26/03	17:16
Pyrene	< 0.00010	mg/l	2948	9/26/03	17:16
1-Methylnaphthalene	< 0.00010	mg/l	2948	9/26/03	17:16
BNA Surr-Nitrobenzene-d5	87.	% Rec	2948	9/26/03	17:16
BNA Surr-2-Fluorobiphenyl	80.	% Rec	2948	9/26/03	17:16
BNA Surr-Terphenyl-d14	122.	% Rec	2948	9/26/03	17:16

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 347074

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INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Jdjacobs	**Phone:**		NC Closed	☑
Client Name:	Pennzoil-Quaker S	**Sample Range:**	144765-144775	Date Closed	9/17/2003
Client Contact:		**SDG:**	347074		
Client Account:	3277	**Analyst:**	71		
Date Created:	9/17/2003	**Supervisor:**	Paul Buckingham		
NC #:	144775	**NC Type:**	NC Analytical 2		
Project Name:	PQS#5117-ETOWAH TE	**Terminal Manager:**			
Project Number:	845335				

Process: Other NC/Process: See Comment Section Below

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Jdjacobs on 9/17/2003 4:41:28 PM
NC closed with out comments

****

Comment added by: Kbundy on 9/17/2003 4:33:00 PM
You are correct, we did not run for PAH, don't worry about those 2 samples. Per George Robertson.

****

There are no PAH extracts or NP liters for 20007S and 20023.

Kenny Bundy

From: Robertson, George [George.Robertson@shawgrp.com]
Sent: Wednesday, September 17, 2003 1:57 PM
To: Kenny Bundy
Cc: Carpenter, David
Subject: PQS Etowah PAH Analysis

347074

Kenny,
Based on the recently received analytical report (Laboratory Project No. 3453366, we need to run the following held samples for PAH according to Method 8270C SIMS per the COC:

20007S
20023
20002S
20012
20013
20014
20016
20017
20019
20020
20022
20027
22022

If you have any questions, please call or e-mail.

Thanks

George A. Robertson
Shaw Environmental, Inc.
1400B Ohio Avenue
Dunbar, West Virginia 25064
Ph: 304.768.2600
Fx: 304.768.4523

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Sample NonConformance/COC Revision Form

Initiated by:	Kbundy	**Phone:**		NC Closed	☑
Client Name:	Pennzoil-Quaker S	**Sample Range:**		Date Closed	9/17/2003
Client Contact:	George Robertson	**SDG:**	343366		
Client Account:	3277	**Analyst:**		**347074**	
Date Created:	9/17/2003	**Supervisor:**	Mark Hollingsworth		
NC #:		**NC Type:**			
Project Name:	PQS-5117 Etowah Termi	**Terminal Manager:**			
Project Number:	845335				

Process: Sample Retagged for New Analysis (Sample already completed) **Corrected By:** Jim Jacobs

Action: Corrected action not chosen **Closed:** ☑ Jdjacobs

Comments:

Comment added by: Jdjacobs on 9/17/2003 2:15:12 PM
NC closed with out comments

****

Comment added by: Jdjacobs on 9/17/2003 2:15:06 PM
OK

****

Please re-tag the 8270 SIM extracts for analysis, they need a level III data package as well. The following samples need to be re-tagged per George Robertson 03-a127754, 03-a127752,03-a127753, 03-a127757, 03-a127758, 03-a127759, 03-a12776103-a127762, 03-a127763,03-a127764, 03-a127765, 03-a127766, and 03-a127769. See the attached email for the request.

~~343366~~
347074

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	...est America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for ~~at least 10%~~ of the analyses.
100%
JaR
8-8-03

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 347074

Client: Shaw

Cooler Received On: 8/14/03 And Opened On: 8/14/03 By: **Paul R Buckingham II**

(Signature)

1. Temperature of Cooler when opened 2.0 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where: 2 front/back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

Fed Ex Airbill #s: 838177410001, 838177409968, 838177409980, 838177409946 838177409924

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Nashville Division
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Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring _____

~~343366~~
347074

Client Name: Shaw Environmental, Inc. Client #: 3277
Address: 1400B Ohio Ave.
State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Phone Number: 304.768.2600 Fax: 304.768.4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: Kirk E. Curry

Project Name: PQS #5117 - Etowah Terminal
Project #: 845335
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other: _____

See attached

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	8260B BTEX/MTBE	6010 Dissolved Lead	8270C SIMS	8021B TPH-GRO	8015B TPH-DRO/KERO GRO					REMARKS
20001	8-15-03	1420	G	Y	GW	1	7				1		X	X	X	X	X		~~127110~~			PAH extract
20001 MS		1420	G	Y	GW	1	7				1		X	X	X	X	X					and Hold
20001 MSD		1420	G	Y	GW	1	7				1		X	X	X	X	X					pending Analyses
20002 S		1325	G	Y	GW	1	7				1		X	X	X	X	X		~~127154~~			03-A144765-1
20002 D		1340	G	Y	GW	1	7				1		X	X	X	X	X		~~55~~			
~~20003~~ 20003 S		1300	G	~~Y~~ N	GW		2						X						~~127156~~			Field Filtered
20003 D		1310	G	~~Y~~ N	GW		7						X			X	X		~~127157~~			
20004		1245	G	Y	GW	1	7				1		X	X	X	X	X		~~127171~~			
20004 MS		1245	G	Y	GW	1	7				1		X	X	X	X	X					
20004 MSD		1245	G	Y	GW	1	7				1		X	X	X	X	X					

Special Instructions: See Attached Yellow Sheet regarding analyses (100% of analyses will be Level III Data Packages)
Extract and Hold PAH pending analytical results

Relinquished By: Kirk E. Curry	8-15-03 Date:	1745 Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 8/16/03	Time: 8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Fed Ex Airbill #s: 838177410001, 838177409968, 838177409980, 838177409946, 838177409924

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Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

~~343366~~
347074

Client Name: Shaw Environmental, Inc. Client #: 3277
Address: 1400B Ohio Ave.
State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Phone Number: 304.768.2600 Fax: 304.768.4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: Kirk E. Curry

Project Name: PQS # 5117 - Etowah Terminal
Project #: 845335
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other
Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)
Analyze For: See attached

QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	8260B BTEX/MTBE	6010 Dissolved Lead	8270C SIMS	8021B TPH-GRO	8015B TPH-DRO/KRO	8015B TPH-EG					REMARKS
200075	8-15-03	1200	G	~~Y~~ N	GW		9						X			X	X	X		~~127752~~			PAHs Extract
20010		0830	G	~~Y~~ N	GW	1	7				1		X	X	X	X	X			~~127756~~			and Hold
20011		1010	G	~~Y~~ N	GW		5						X			X				~~127748~~ 49			pending Analyses
20012		1020	G	Y	GW	1	7				1		X	X	X	X	X			~~127757~~			03-A144766-1
20013		1025	G	Y	GW	1	7				1		X	X	X	X	X			~~58~~			03-A144767-1
20014		1045	G	Y	GW	1	7				1		X	X	X	X	X			~~59~~			03-A144768-1
20015		0855	G	Y	GW	1	7				1		X	X	X	X	X			~~60~~			
20016		1100	G	Y	GW	1	7				1		X	X	X	X	X			~~61~~			03-A144769-1
20017		1120	G	Y	GW	1	7				1		X	X	X	X	X			~~62~~			03-A144770-1
20019		0915	G	Y	GW	1	7				1		X	X	X	X	X			~~63~~			03-A144771-1

Special Instructions: See Attached Yellow Sheet regarding Analysis (100% of analyses will be Level III Data Packages)
Extract and Hold PAHs, pending analytic results

Relinquished By: Kirk E. Curry	8-15-03 Date:	1745 Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	8/16/03 Date:	8:20 Time:

LABORATORY COMMENTS
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Fed Ex Airbill #s: 838177410001, 838177409968, 838177409980, 838177409946, 838177409924

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Nashville, TN 37204
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To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

343366
347074

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TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

See attached

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	HNO3	HCl	NaOH	H2SO4	Methanol	None	Other (Specify): LAB	8260B BTEX/MTBE	8270C SVOCs	6010 Dissolved Lead	8021B TPH-GRO	8015B TPH DRO/GRO				QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other: ___ REMARKS
20020	8-15-03	1135	G	Y	GW	1	7				1		X	X	X	X	X			~~127~~ 160	03-A144772-1
20022		1455	G	Y	GW	1	7				1		X	X	X	X	X			~~165~~	03-A144773-1
20023		1435	G	N	GW		7						X			X	X			~~127~~ 153	
20027		0945	G	Y	GW	1	7				1		X	X	X	X	X			160	03-A144774-1
20028		1225	G	N	GW		6						X			X				~~127~~ ~~249~~ 150	
20029		1400	G	Y	GW	1	7				1		X	X	X	X	X			~~167~~	Data Attached
22002 D		0800	G	Y	GW	1	7				1		X	X	X	X	X			~~165~~	
22022		0810	G	Y	GW	1	7				1		X	X	X	X	X			~~165~~	03-A144775-1
TB-8	Lab	Lab										2	X							~~127~~ ~~147~~	

Special Instructions: See Attached page (Yellow Sheet) regarding Analyses (100% of analyses will be Level III Data Packages)
Extract and hold PAHs, pending analytical results

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Kirk E. Curry	8-15-03	1745			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	8/16/03	8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION

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800-765-0980 • 615-726-3404 Fax

10/10/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS#5117-ETOWAH TERMINAL
Project Number: 845337.
Laboratory Project Number: 346477.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
22033	03-A142225	9/11/03
20030	03-A142226	9/11/03
E-1	03-A142227	9/11/03
E-2	03-A142228	9/11/03
E-3	03-A142229	9/11/03
20031	03-A142230	9/11/03
E-4	03-A142231	9/11/03
E-5	03-A142232	9/11/03
E-6	03-A142233	9/11/03
E-7	03-A142234	9/11/03
E-8	03-A142235	9/11/03
E-9	03-A142236	9/11/03
20033	03-A142237	9/11/03
E-10	03-A142238	9/11/03
E-11	03-A142239	9/11/03
E-12	03-A142240	9/11/03
20034	03-A142241	9/11/03

TestAmerica
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Sample Identification	Lab Number	Collection Date
E-13	03-A142242	9/11/03
E-14	03-A142243	9/11/03
E-15	03-A142244	9/11/03
11092	03-A142245	9/11/03
20032	03-A142246	9/11/03
10088	03-A142247	9/11/03
10089	03-A142248	9/11/03
10090	03-A142249	9/11/03
10091	03-A142250	9/11/03
12089	03-A142251	9/11/03
10092	03-A142252	9/11/03

These results relate only to the items tested.
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Report Approved By: Glenn Norton Report Date: 10/ 3/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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THIS CLIENT REQUIRES DATA VIA EMAIL. PLEASE SUBMIT THIS PAGE WITH A COPY OF THE COC FOR COMPLETION.

SDG No.: 346477
Client Code: 3277
Client Name: Pennzoil-Quaker State
Project Manager: DAVID CARPENTER
Project Name: PQS#5117-ETOWAH TERMINAL
Project Number: 845337

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142225
Sample ID: 22033
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 8:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.206	mg/l	0.100	1	9/18/03	1:35	M.Jarrett	8015B/3510	2387
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/24/03	19:08	F.Gundi	8015B	8671
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/18/03	1:35	M.Jarrett	8015B/3510	2387
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/20/03	18:23	B.Herford	8260B	1768
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/20/03	18:23	B.Herford	8260B	1768
Toluene	< 0.0010	mg/l	0.0010	1	9/20/03	18:23	B.Herford	8260B	1768
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/20/03	18:23	B.Herford	8260B	1768
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/20/03	18:23	B.Herford	8260B	1768
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	10:15	C.Johnson	6010B	1086
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	10:45	C.Johnson	6010B	1097
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:00	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142225
Sample ID: 22033
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/13/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	111.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	72.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr. 4-BFB	91.	71. - 132.
VOA Surr. DBFM	98.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142226
Sample ID: 20030
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 10:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.118	mg/l	0.100	1	9/18/03	1:56	M.Jarrett	8015B/3510	2387
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/24/03	19:42	F.Gundi	8015B	8671
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/18/03	1:56	M.Jarrett	8015B/3510	2387
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/20/03	18:51	B.Herford	8260B	1768
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/20/03	18:51	B.Herford	8260B	1768
Toluene	< 0.0010	mg/l	0.0010	1	9/20/03	18:51	B.Herford	8260B	1768
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/20/03	18:51	B.Herford	8260B	1768
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/20/03	18:51	B.Herford	8260B	1768
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	10:15	C.Johnson	6010B	1086
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	10:45	C.Johnson	6010B	1097
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:00	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

'ample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142226
Sample ID: 20030
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/13/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	89.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	73.	69. - 129.
VOA Surr 1,2-DCA-d4	96.	70. - 133.
VOA Surr Toluene-d8	101.	76. - 123.
VOA Surr, 4-BFB	93.	71. - 132.
VOA Surr, DBFM	95.	74. - 128.

LABORATORY COMMENTS:
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E = Estimated Value above the calibration limit of the instrument.
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142227
Sample ID: E-1
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 10:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	18:48	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	18:59	T. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	18:48	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/20/03	19:20	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/20/03	19:20	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/20/03	19:20	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/20/03	19:20	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/20/03	19:20	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.8				9/13/03	9:05	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142227
Sample ID: E-1
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	94.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	85.	69. - 129.
VOA Surr 1,2-DCA-d4	94.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.

LABORATORY COMMENTS:
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E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142228
Sample ID: E-2
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 10:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	19:08	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	19:33	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	19:08	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/20/03	19:48	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/20/03	19:48	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/20/03	19:48	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/20/03	19:48	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/20/03	19:48	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:05	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142228
Sample ID: E-2
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	98.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	88.	69. - 129.
VOA Surr 1,2-DCA-d4	96.	70. - 133.
VOA Surr Toluene-d8	93.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142229
Sample ID: E-3
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 10:45
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	19:28	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	20:07	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	19:28	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/20/03	20:17	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/20/03	20:17	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/20/03	20:17	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/20/03	20:17	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/20/03	20:17	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:10	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142229
Sample ID: E-3
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	105.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	88.	69. - 129.
VOA Surr 1,2-DCA-d4	97.	70. - 133.
VOA Surr Toluene-d8	100.	76. - 123.
VOA Surr, 4-BFB	92.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142230
Sample ID: 20031
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 11:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	19:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	20:41	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	19:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	0:05	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	0:05	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	0:05	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	0:05	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	0:05	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7.1				9/13/03	9:10	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142230
Sample ID: 20031
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	103.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	89.	69. - 129.
VOA Surr 1,2-DCA-d4	92.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	95.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142231
Sample ID: E-4
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 11:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	20:09	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	21:15	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	20:09	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	0:34	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	0:34	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	0:34	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	0:34	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	0:34	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	0.0030 J	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:15	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

'ample report continued . . .

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ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Laboratory Number: 03-A142231
Sample ID: E-4
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	109.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	92.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	95.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142232
Sample ID: E-5
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 11:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	1.40	mg/l	0.100	1	9/18/03	18:48	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	21:49	I. Ahmed	8015B	8669
TPH (Diesel Range)	0.785	mg/l	0.100	1	9/18/03	18:48	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:03	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:03	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	1:03	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	1:03	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	1:03	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7.1				9/13/03	9:15	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142232
Sample ID: E-5
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	83.	61. - 134.
BTEX/GRO Surr., a,a,a TFT	92.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	94.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142233
Sample ID: E-6
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 11:40
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	20:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	22:23	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	20:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:31	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:31	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	1:31	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	1:31	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	1:31	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:20	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142233
Sample ID: E-6
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	102.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	96.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	92.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142234
Sample ID: E-7
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 13:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.235	mg/l	0.100	1	9/18/03	19:28	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	22:56	I. Ahmed	8015B	8669
TPH (Diesel Range)	0.118	mg/l	0.100	1	9/18/03	19:28	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:59	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	1:59	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	1:59	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	1:59	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	1:59	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.7				9/13/03	9:20	S. Self	9040/150.1	8959

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142234
Sample ID: E-7
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	109.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	98.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	91.	71. - 132.
VOA Surr, DBFM	98.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142235
Sample ID: E-8
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 13:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORD (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	21:29	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/14/03	23:30	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	21:29	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	2:28	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	2:28	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	2:28	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	2:28	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	2:28	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:30	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142235
Sample ID: E-8
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	93.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 129.
VOA Surr 1,2-DCA-d4	96.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr, 4-BFB	91.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142236
Sample ID: E-9
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 13:45
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	21:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	0:04	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	21:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	2:57	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	2:57	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	2:57	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	2:57	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	2:57	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.8				9/13/03	9:30	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

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ANALYTICAL REPORT

Laboratory Number: 03-A142236
Sample ID: E-9
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	129.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.
VOA Surr 1,2-DCA-d4	96.	70. - 133.
VOA Surr Toluene-d8	95.	76. - 123.
VOA Surr, 4-BFB	86.	71. - 132.
VOA Surr, DBFM	99.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142237
Sample ID: 20033
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 14:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	22:09	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	1:46	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	22:09	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	3:25	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	3:25	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	3:25	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	3:25	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	3:25	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:35	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

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ANALYTICAL REPORT

Laboratory Number: 03-A142237
Sample ID: 20033
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	117.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	92.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 133.
VOA Surr, 4-BFB	87.	71. - 132.
VOA Surr, DBFM	99.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142238
Sample ID: E-10
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 14:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORG (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	22:29	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	2:19	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	22:29	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	3:54	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	3:54	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	3:54	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	3:54	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	3:54	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:35	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

mple report continued . . .

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ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 03-A142238
Sample ID: E-10
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 mL	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	102.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	101.	70. - 133.
VOA Surr Toluene-d8	95.	76. - 123.
VOA Surr, 4-BFB	92.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142239
Sample ID: E-11
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 14:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	22:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/18/03	2:53	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	22:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	4:22	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	4:22	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	4:22	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	4:22	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	4:22	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	0.0040 J	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:40	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142239
Sample ID: E-11
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	112.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	92.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr. 4-BFB	91.	71. - 132.
VOA Surr. DBFM	94.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142240
Sample ID: E-12
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 14:45
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	23:09	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	3:27	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	23:09	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	4:50	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	4:50	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	4:50	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	4:50	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	4:50	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:40	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142240
Sample ID: E-12
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	107.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	98.	69. - 129.
VOA Surr 1,2-DCA-d4	101.	70. - 133.
VOA Surr Toluene-d8	94.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142241
Sample ID: 20034
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 15:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	23:29	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	4:01	T. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	23:29	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	5:19	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	5:19	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	5:19	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	5:19	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	5:19	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.7				9/13/03	9:45	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142241
Sample ID: 20034
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	145. #	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	100.	76. - 123.
VOA Surr, 4-BFB	92.	71. - 132.
VOA Surr, DBFM	101.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
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J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142242
Sample ID: E-13
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 15:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORG (C24-C40)	< 0.100	mg/l	0.100	1	9/17/03	23:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	4:35	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/17/03	23:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	5:47	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	5:47	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	5:47	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	5:47	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	5:47	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.9				9/13/03	9:45	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142242
Sample ID: E-13
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	113.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.
VOA Surr 1,2-DCA-d4	99.	78. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	99.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
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J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142243
Sample ID: E-14
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 15:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/18/03	0:09	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	5:08	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/18/03	0:09	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	6:16	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	6:16	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	6:16	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	6:16	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	6:16	B.Herford	8260B	1760
METALS									
Lead	0.0032 J	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	6.8				9/13/03	9:50	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142243
Sample ID: E-14
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	107.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	98.	69. - 129.
VOA Surr 1,2-DCA-d4	98.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	100.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142244
Sample ID: E-15
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 15:45
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/18/03	0:30	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	5:42	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/18/03	0:30	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	6:45	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	6:45	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	6:45	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	6:45	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	6:45	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7				9/13/03	9:50	S. Self	9040/150.1	8960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142244
Sample ID: E-15
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	94.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	97.	69. - 129.
VOA Surr 1,2-DCA-d4	100.	70. - 133.
VOA Surr Toluene-d8	94.	76. - 123.
VOA Surr, 4-BFB	88.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142245
Sample ID: 11092
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 17:25
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	0.149	mg/l	0.100	1	9/18/03	19:49	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	6:16	I. Ahmed	8015B	8669
TPH (Diesel Range)	0.201	mg/l	0.100	1	9/18/03	19:49	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	7:13	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	7:13	B.Herford	8260B	1760
Toluene	0.0007 J	mg/l	0.0010	1	9/21/03	7:13	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	7:13	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	7:13	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
MISCELLANEOUS CHEMISTRY									
pH	7.1				9/13/03	10:05	S. Self	9040/150.1	8961

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
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ANALYTICAL REPORT

Laboratory Number: 03-A142245
Sample ID: 11092
Project: 845337

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	82.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	100.	69. - 129.
VOA Surr 1,2-DCA-d4	102.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr. 4-BFB	89.	71. - 132.
VOA Surr, DBFM	103.	74. - 128.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142246
Sample ID: 20032
Sample Type: Ground water
Site ID:

Date Collected: 9/11/03
Time Collected: 13:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	< 0.100	mg/l	0.100	1	9/18/03	1:10	Weatherly	8015B/3510	4888
TPH (Gasoline Range)	< 0.100	mg/l	0.100	1	9/15/03	6:49	I. Ahmed	8015B	8669
TPH (Diesel Range)	< 0.100	mg/l	0.100	1	9/18/03	1:18	Weatherly	8015B/3510	4888
VOLATILE ORGANICS									
Benzene	< 0.0010	mg/l	0.0010	1	9/21/03	7:42	B.Herford	8260B	1760
Ethylbenzene	< 0.0010	mg/l	0.0010	1	9/21/03	7:42	B.Herford	8260B	1760
Toluene	< 0.0010	mg/l	0.0010	1	9/21/03	7:42	B.Herford	8260B	1760
Xylenes (Total)	< 0.0010	mg/l	0.0010	1	9/21/03	7:42	B.Herford	8260B	1760
Methyl-t-butyl ether	< 0.0010	mg/l	0.0010	1	9/21/03	7:42	B.Herford	8260B	1760
METALS									
Lead	< 0.0050	mg/l	0.0050	1	9/17/03	12:07	C. Martin	6010B	8659
Lead, Dissolved	< 0.0050	mg/l	0.0050	1	9/17/03	9:57	C. Martin	6010B	8663
MISCELLANEOUS CHEMISTRY									
pH	7.1				9/13/03	10:05	S. Self	9040/150.1	8961

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/13/03		M. Ricke	3510C

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142246
Sample ID: 20032
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	9/15/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	113.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	94.	69. - 129.
VOA Surr 1,2-DCA-d4	99.	70. - 133.
VOA Surr Toluene-d8	96.	76. - 123.
VOA Surr. 4-BFB	90.	71. - 132.
VOA Surr. DBFM	99.	74. - 128.

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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142247
Sample ID: 10088
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 16:30
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	46.9	%		1	9/22/03	14:38	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	87.2	mg/kg	10.7	1	9/16/03	18:19	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 10.7	mg/kg	10.7	1	9/16/03	17:58	J. Redmond	8015B	8968
TPH (Diesel Range)	< 10.7	mg/kg	10.7	1	9/16/03	18:19	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.0043	mg/kg	0.0043	1	9/22/03	15:06	J. Adams	8260B	1672
Ethylbenzene	< 0.0043	mg/kg	0.0043	1	9/22/03	15:06	J. Adams	8260B	1672
Toluene	< 0.0043	mg/kg	0.0043	1	9/22/03	15:06	J. Adams	8260B	1672
Xylenes (Total)	< 0.0043	mg/kg	0.0043	1	9/22/03	15:06	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.0043	mg/kg	0.0043	1	9/22/03	15:06	J. Adams	8260B	1672
METALS									
Lead	26	mg/kg	2.13	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142247
Sample ID: 10088
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.2 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	24.7 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	4.94 g	5.0 ml	9/11/03	16:30	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 119.
EPH surr-o-Terphenyl	103.	53. - 123.
VOA Surr 1,2-DCA-d4	107.	58. - 139.
VOA Surr Toluene-d8	103.	71. - 127.
VOA Surr, 4-BFB	94.	60. - 141.
VOA Surr, DBFM	77.	67. - 126.

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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142248
Sample ID: 10089
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 16:40
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	65.3	%		1	9/22/03	14:38	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	27.1	mg/kg	7.66	1	9/16/03	18:39	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 7.66	mg/kg	7.66	1	9/16/03	18:31	J. Redmond	8015B	8968
TPH (Diesel Range)	< 7.66	mg/kg	7.66	1	9/16/03	18:39	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.0031	mg/kg	0.0031	1	9/22/03	15:36	J. Adams	8260B	1672
Ethylbenzene	< 0.0031	mg/kg	0.0031	1	9/22/03	15:36	J. Adams	8260B	1672
Toluene	< 0.0031	mg/kg	0.0031	1	9/22/03	15:36	J. Adams	8260B	1672
Xylenes (Total)	< 0.0031	mg/kg	0.0031	1	9/22/03	15:36	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.0031	mg/kg	0.0031	1	9/22/03	15:36	J. Adams	8260B	1672
METALS									
Lead	19.8	mg/kg	1.49	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142248
Sample ID: 10089
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.9 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	24.8 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	4.98 g	5.0 ml	9/11/03	16:40	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	98.	65. - 119.
EPH surr-o-Terphenyl	122.	53. - 123.
VOA Surr 1,2-DCA-d4	107.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr, 4-BFB	96	60. - 141.
VOA Surr, DBFM	78.	67. - 126.

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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142249
Sample ID: 10090
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 16:50
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	51.5	%		1	9/22/03	14:36	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	58.6	mg/kg	9.71	1	9/16/03	18:59	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 9.71	mg/kg	9.71	1	9/16/03	19:03	J. Redmond	8015B	8968
TPH (Diesel Range)	< 9.71	mg/kg	9.71	1	9/16/03	18:59	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.005	mg/kg	0.005	1	9/22/03	16:07	J. Adams	8260B	1672
Ethylbenzene	< 0.005	mg/kg	0.005	1	9/22/03	16:07	J. Adams	8260B	1672
Toluene	< 0.005	mg/kg	0.005	1	9/22/03	16:07	J. Adams	8260B	1672
Xylenes (Total)	< 0.005	mg/kg	0.005	1	9/22/03	16:07	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.005	mg/kg	0.005	1	9/22/03	16:07	J. Adams	8260B	1672
METALS									
Lead	30.5	mg/kg	1.88	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142249
Sample ID: 10090
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	30.6 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	25.1 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	3.80 g	5.0 ml	9/11/03	16:50	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
EPH surr-o-Terphenyl	100.	53. - 123.
VOA Surr 1,2-DCA-d4	108.	58. - 139.
VOA Surr Toluene-d8	103.	71. - 127.
VOA Surr, 4-BFB	94.	60. - 141.
VOA Surr, DBFM	76.	67. - 126.

LABORATORY COMMENTS:
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142250
Sample ID: 10091
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 17:00
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	69.8	%		1	9/22/03	14:38	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	28.7	mg/kg	7.16	1	9/16/03	19:19	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 7.16	mg/kg	7.16	1	9/16/03	19:35	J. Redmond	8015B	8968
TPH (Diesel Range)	< 7.16	mg/kg	7.16	1	9/16/03	19:19	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.0023	mg/kg	0.0023	1	9/22/03	16:38	J. Adams	8260B	1672
Ethylbenzene	< 0.0023	mg/kg	0.0023	1	9/22/03	16:38	J. Adams	8260B	1672
Toluene	< 0.0023	mg/kg	0.0023	1	9/22/03	16:38	J. Adams	8260B	1672
Xylenes (Total)	< 0.0023	mg/kg	0.0023	1	9/22/03	16:38	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.0023	mg/kg	0.0023	1	9/22/03	16:38	J. Adams	8260B	1672
METALS									
Lead	22.2	mg/kg	1.42	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142250
Sample ID: 10091
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.2 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	25.2 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	6.16 g	5.0 ml	9/11/03	17:00	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
EPH surr-o-Terphenyl	91.	53. - 123.
VOA Surr 1,2-DCA-d4	109.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr. 4-BFB	96.	60. - 141.
VOA Surr. DBFM	79.	67. - 126.

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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142251
Sample ID: 12089
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 8:15
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	64.7	%		1	9/22/03	14:38	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	26.1	mg/kg	7.73	1	9/16/03	19:40	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 7.73	mg/kg	7.73	1	9/16/03	20:07	J. Redmond	8015B	8968
TPH (Diesel Range)	< 7.73	mg/kg	7.73	1	9/16/03	19:40	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.0031	mg/kg	0.0031	1	9/22/03	17:09	J. Adams	8260B	1672
Ethylbenzene	< 0.0031	mg/kg	0.0031	1	9/22/03	17:09	J. Adams	8260B	1672
Toluene	< 0.0031	mg/kg	0.0031	1	9/22/03	17:09	J. Adams	8260B	1672
Xylenes (Total)	< 0.0031	mg/kg	0.0031	1	9/22/03	17:09	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.0031	mg/kg	0.0031	1	9/22/03	17:09	J. Adams	8260B	1672
METALS									
Lead	22.1	mg/kg	1.53	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A142251
Sample ID: 12089
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.8 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	24.9 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	5.09 g	5.0 ml	9/11/03	8:15	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
EPH surr-o-Terphenyl	91.	53. - 123.
VOA Surr 1,2-DCA-d4	108.	58. - 139.
VOA Surr Toluene-d8	101.	71. - 127.
VOA Surr, 4-BFB	99.	60. - 141.
VOA Surr, DBFM	78.	67. - 126.

LABORATORY COMMENTS:
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End of Sample Report.

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845337
Project Name: PQS#5117-ETOWAH TERMINAL
Sampler: KIRK E. CURRY

Lab Number: 03-A142252
Sample ID: 10092
Sample Type: Soil
Site ID:

Date Collected: 9/11/03
Time Collected: 17:10
Date Received: 9/12/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	54.1	%		1	9/22/03	14:38	M. Ricke	CLP	8963
ORGANIC PARAMETERS									
TRPH ORO (C24-C40)	84.1	mg/kg	9.24	1	9/16/03	20:00	M.Jarrett	8015B	2363
TPH (Gasoline Range)	< 9.24	mg/kg	9.24	1	9/16/03	20:40	J. Redmond	8015B	8968
TPH (Diesel Range)	< 9.24	mg/kg	9.24	1	9/16/03	20:00	M.Jarrett	8015B	2363
VOLATILE ORGANICS									
Benzene	< 0.0035	mg/kg	0.0035	1	9/22/03	17:40	J. Adams	8260B	1672
Ethylbenzene	< 0.0035	mg/kg	0.0035	1	9/22/03	17:40	J. Adams	8260B	1672
Toluene	< 0.0035	mg/kg	0.0035	1	9/22/03	17:40	J. Adams	8260B	1672
Xylenes (Total)	< 0.0035	mg/kg	0.0035	1	9/22/03	17:40	J. Adams	8260B	1672
Methyl-t-butyl ether	< 0.0035	mg/kg	0.0035	1	9/22/03	17:40	J. Adams	8260B	1672
METALS									
Lead	26.6	mg/kg	1.79	1	9/17/03	14:21	C. Martin	6010B	8966

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
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ANALYTICAL REPORT

Laboratory Number: 03-A142252
Sample ID: 10092
Project: 845337

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	29.6 gm	1.0 ml	9/13/03		M. Ricke	SW3550
EPH/DRO	25.3 gm	1.0 ml	9/13/03		M. Ricke	3550
Volatile Organics	5.25 g	5.0 ml	9/11/03	17:10	J. Adams	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 119.
EPH surr-o-Terphenyl	86.	53. - 123.
VOA Surr 1,2-DCA-d4	107.	58. - 139.
VOA Surr Toluene-d8	102.	71. - 127.
VOA Surr, 4-BFB	102.	60. - 141.
VOA Surr, DBFM	79.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the limit of detection
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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PROJECT QUALITY CONTROL DATA
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Project Name: PQS#5117-ETOWAH TERMINAL
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Laboratory Receipt Date: 9/12/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH ORO (C24-C40)	mg/l	< 0.100	0.906	1.00	91	59. - 125.	2387	blank
TRPH ORO (C24-C40)	mg/l	< 0.100	1.09	1.00	109	59. - 125.	4888	03-A142246
TPH (Gasoline Range)	mg/kg	< 5.00	17.4	50.0	35#	62. - 129.	8968	03-A142252
TPH (Diesel Range)	mg/kg	< 10.0	31.8	40.0	80	50. - 129.	2363	03-A142252
TPH (Gasoline Range)	mg/l	< 0.100	1.14	1.00	114	56. - 134.	8669	03-A142246
TRPH ORO (C24-C40)	mg/kg	45.5	31.8	40.0	-34#	30. - 125.	2363	03-A142252
TPH (Diesel Range)	mg/l	< 0.100	0.906	1.00	91	35. - 130.	2387	blank
TPH (Diesel Range)	mg/l	< 0.100	1.09	1.00	109	35. - 130.	4888	03-A142246
BTEX/GRO Surr., a,a,a-TFT	% Recovery				113	69 - 129	8669	
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0511	0.0500	102	68 - 136	1768	03A144669
Benzene	mg/l	< 0.0010	0.0527	0.0500	105	68 - 136	1760	03-A142246
Benzene	mg/kg	< 0.0019	0.0431	0.0500	86	53 - 140	1672	03-A142252
Toluene	mg/l	< 0.0006	0.0544	0.0500	109	73 - 133	1768	03A144669
Toluene	mg/l	< 0.0010	0.0548	0.0500	110	73 - 133	1760	03-A142246
Toluene	mg/kg	< 0.0019	0.0444	0.0500	89	47 - 142	1672	03-A142252
VOA Surr 1,2-DCA-d4	% Rec				105	58 - 139	1672	
VOA Surr Toluene-d8	% Rec				103	71 - 127	1672	
VOA Surr, 4-BFB	% Rec				92	60 - 141	1672	
VOA Surr, DBFM	% Rec				78	67 - 126	1672	
METALS								
Lead	mg/l	< 0.0050	0.0530	0.0500	106	80 - 120	1086	03-A140391
Lead	mg/l	< 0.0050	0.0590	0.0500	118	80 - 120	8659	03-A142246
Lead, Dissolved	mg/l	< 0.0050	0.0580	0.0500	116	80 - 120	8663	03-A142246
Lead	mg/kg	14.4	224.	200.	105	80 - 120	8966	03-A142252

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	31.8	34.6	8.43	47.	2363
TRPH ORO (C24-C40)	mg/l	0.906	1.06	15.67	26.	2387
TRPH ORO (C24-C40)	mg/l	1.09	1.17	7.08	26.	4888
TPH (Gasoline Range)	mg/kg	17.4	19.4	10.87	21.	8968
TPH (Diesel Range)	mg/kg	31.8	34.6	8.43	43.	2363
TPH (Gasoline Range)	mg/l	1.14	1.17	2.60	24.	8669
TPH (Diesel Range)	mg/l	0.906	1.06	15.67	41.	2387
TPH (Diesel Range)	mg/l	1.09	1.17	7.08	41.	4888
BTEX/GRO Surr., a,a,a-TFT	% Recovery		110.			8669
VOA PARAMETERS						
Benzene	mg/l	0.0511	0.0523	2.32	22.	1768
Benzene	mg/l	0.0527	0.0521	1.15	22.	1760
Benzene	mg/kg	0.0431	0.0361	17.68	34.	1672
Toluene	mg/l	0.0544	0.0546	0.37	22.	1768
Toluene	mg/l	0.0548	0.0545	0.55	22.	1760
Toluene	mg/kg	0.0444	0.0347	24.53	39.	1672
VOA Surr 1,2-DCA-d4	% Rec		96.			1768
VOA Surr 1,2-DCA-d4	% Rec		95.			1760
VOA Surr 1,2-DCA-d4	% Rec		106.			1672
VOA Surr Toluene-d8	% Rec		101.			1768
VOA Surr Toluene-d8	% Rec		99.			1760
VOA Surr Toluene-d8	% Rec		103.			1672
VOA Surr. 4-BFB	% Rec		88.			1768
VOA Surr. 4-BFB	% Rec		84.			1760
VOA Surr. 4-BFB	% Rec		91.			1672
VOA Surr. DBFM	% Rec		99.			1768
VOA Surr. DBFM	% Rec		98.			1760

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA Surr, DBFM	% Rec		78.			1672

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	50.0	46.2	92	75 - 121	8968
TPH (Diesel Range)	mg/kg	40.0	37.6	94	50 - 125	2363
TPH (Gasoline Range)	mg/l	1.00	0.987	99	72 - 125	8669
TPH (Gasoline Range)	mg/l	1.00	0.940	94	72 - 125	8671
BTEX/GRO Surr., a,a,a-TFT	% Recovery			114	69 - 129	8669
BTEX/GRO Surr., a,a,a-TFT	% Recovery			97	69 - 129	8671
UST PARAMETERS						
TRPH ORO (C24-C40)	mg/kg	40.0	37.6	94	30 - 125	2363
TRPH ORO (C24-C40)	mg/l	1.00	1.08	108	59 - 125	2387
TRPH ORO (C24-C40)	mg/l	1.00	1.06	106	59 - 125	4888
TPH (Diesel Range)	mg/l	1.00	1.08	108	35 - 130	2387
TPH (Diesel Range)	mg/l	1.00	1.06	106	35 - 130	4888
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0515	104	78 - 125	1760
Benzene	mg/l	0.0500	0.0510	102	78 - 125	1768
Benzene	mg/kg	0.0500	0.0488	98	75 - 127	1672
Ethylbenzene	mg/l	0.0500	0.0544	109	79 - 125	1760
Ethylbenzene	mg/l	0.0500	0.0549	110	79 - 125	1768
Ethylbenzene	mg/kg	0.0500	0.0591	118	69 - 128	1672
Toluene	mg/l	0.0500	0.0534	107	79 - 125	1760
Toluene	mg/l	0.0500	0.0542	108	79 - 125	1768

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/kg	0.0500	0.0546	109	72 - 128	1672
Xylenes (Total)	mg/l	0.150	0.163	109	78 - 127	1760
Xylenes (Total)	mg/l	0.150	0.163	109	78 - 127	1768
Xylenes (Total)	mg/kg	0.150	0.180	120	69 - 128	1672
Methyl-t-butyl ether	mg/l	0.0500	0.0533	107	71 - 135	1760
Methyl-t-butyl ether	mg/l	0.0500	0.0519	104	71 - 135	1768
Methyl-t-butyl ether	mg/kg	0.0500	0.0415	83	58 - 142	1672
VOA Surr 1,2-DCA-d4	% Rec			95	70 - 133	1760
VOA Surr 1,2-DCA-d4	% Rec			94	70 - 133	1768
VOA Surr 1,2-DCA-d4	% Rec			97	58 - 139	1672
VOA Surr Toluene-d8	% Rec			103	76 - 123	1760
VOA Surr Toluene-d8	% Rec			102	76 - 123	1768
VOA Surr Toluene-d8	% Rec			104	71 - 127	1672
VOA Surr, 4-BFB	% Rec			87	71 - 132	1760
VOA Surr, 4-BFB	% Rec			88	71 - 132	1768
VOA Surr, 4-BFB	% Rec			93	60 - 141	1672
VOA Surr, DBFM	% Rec			97	74 - 128	1760
VOA Surr, DBFM	% Rec			100	74 - 128	1768
VOA Surr, DBFM	% Rec			71	67 - 126	1672
METALS						
Lead	mg/l	0.0500	0.0560	112	80 - 120	1086
Lead	mg/l	0.0500	0.0560	112	80 - 120	8659
Lead, Dissolved	mg/l	0.0500	0.0560	112	80 - 120	1097
Lead, Dissolved	mg/l	0.0500	0.0560	112	80 - 120	8663
Lead	mg/kg	200.	210.	105	80 - 120	8966

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Lead	mg/l	< 0.0050	< 0.0050	N/A	15.	1086	03-A140391
Lead	mg/l	< 0.0050	< 0.0050	N/A	15.	8659	03-A142246
Lead, Dissolved	mg/l	< 0.0050	< 0.0050	N/A	15.	8663	03-A142246
Lead	mg/kg	14.4	14.8	2.74	15.	8966	03-A142252
pH	pH Units	6.30	6.90	0.00	15.	8959	03-A142233
pH	pH Units	6.90	6.90	0.00	15.	8960	03-A142242
pH	pH Units	7.10	7.00	1.42	15.	8961	03-A142246

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH ORO (C24-C40)	< 10.0	mg/kg	2363	9/16/03	16:57
TRPH ORO (C24-C40)	< 0.100	mg/l	4888	9/17/03	17:27
TRPH ORO (C24-C40)	< 0.100	mg/l	2387	9/18/03	0:13
TPH (Gasoline Range)	< 5.00	mg/kg	8966	9/16/03	17:26
TPH (Diesel Range)	< 10.0	mg/kg	2363	9/16/03	16:57
TPH (Gasoline Range)	< 0.0500	mg/l	8669	9/14/03	18:25
TPH (Gasoline Range)	< 0.0500	mg/l	8671	9/24/03	16:52
TPH (Diesel Range)	< 0.100	mg/l	4888	9/17/03	17:27
TPH (Diesel Range)	< 0.100	mg/l	2387	9/18/03	0:13

Project QC continued . . .

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UST surr-Trifluorotoluene	90.	% Recovery	8968	9/16/03	17:26
EPH surr-o-Terphenyl	123.	% Recovery	2363	9/16/03	16:57
BTEX/GRO Surr., a,a,a-TFT	88.	% Recovery	8669	9/14/03	18:25
BTEX/GRO Surr., a,a,a-TFT	73.	% Recovery	8671	9/24/03	16:52
VOA PARAMETERS					
Benzene	< 0.0005	mg/l	1760	9/20/03	12:12
Benzene	< 0.0005	mg/l	1768	9/20/03	12:12
Benzene	< 0.0003	mg/kg	1672	9/22/03	9:26
Ethylbenzene	< 0.0003	mg/l	1760	9/20/03	12:12
Ethylbenzene	< 0.0003	mg/l	1768	9/20/03	12:12
Ethylbenzene	< 0.0005	mg/kg	1672	9/22/03	9:26
Toluene	< 0.0006	mg/l	1760	9/20/03	12:12
Toluene	< 0.0006	mg/l	1768	9/20/03	12:12
Toluene	< 0.0008	mg/kg	1672	9/22/03	9:26
Xylenes (Total)	< 0.0009	mg/l	1760	9/20/03	12:12
Xylenes (Total)	< 0.0009	mg/l	1768	9/20/03	12:12
Xylenes (Total)	< 0.0013	mg/kg	1672	9/22/03	9:26
Methyl-t-butyl ether	< 0.0005	mg/l	1760	9/20/03	12:12
Methyl-t-butyl ether	< 0.0005	mg/l	1768	9/20/03	12:12
Methyl-t-butyl ether	< 0.0006	mg/kg	1672	9/22/03	9:26
VOA Surr 1,2-DCA-d4	92.	% Rec	1760	9/20/03	12:12
VOA Surr 1,2-DCA-d4	92.	% Rec	1768	9/20/03	12:12
VOA Surr 1,2-DCA-d4	105.	% Rec	1672	9/22/03	9:26
VOA Surr Toluene-d8	95.	% Rec	1760	9/20/03	12:12
VOA Surr Toluene-d8	95.	% Rec	1768	9/20/03	12:12
VOA Surr Toluene-d8	102.	% Rec	1672	9/22/03	9:26
VOA Surr, 4-BFB	93.	% Rec	1760	9/20/03	12:12
VOA Surr, 4-BFB	93.	% Rec	1768	9/20/03	12:12
VOA Surr, 4-BFB	93.	% Rec	1672	9/22/03	9:26
VOA Surr, DBFM	93.	% Rec	1760	9/20/03	12:12
VOA Surr, DBFM	93.	% Rec	1768	9/20/03	12:12
VOA Surr, DBFM	72.	% Rec	1672	9/22/03	9:26

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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METALS

Lead	< 0.0029	mg/l	1086	9/17/03	10:15
Lead	< 0.0029	mg/l	8659	9/17/03	12:07
Lead, Dissolved	< 0.0050	mg/l	1097	9/17/03	10:45
Lead, Dissolved	< 0.0050	mg/l	8663	9/17/03	9:57
Lead	< 0.52	mg/kg	8966	9/17/03	14:21

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 346477

SPECIAL ANALYTICAL INSTRUCTIONS
CONTACT KENNY BUNDY AT LOG-IN

Matrix	Analysis	SW 846 Method	Parameters	Maximum Detection Limit	Test America Detection Limit
Soil	VOC	8260B	benzene	0.005 mg/kg	0.002 mg/kg
			toluene	0.005 mg/kg	0.002 mg/kg
			ethylbenzene	0.005 mg/kg	0.002 mg/kg
			xylenes	0.002 mg/kg	0.002 mg/kg
			MTBE	0.002 mg/kg	0.002 mg/kg
	Lead	6010B	lead	1.0 mg/kg	1.0 mg/kg
	PAH	8270C SIMS	18 PAHs	0.031 mg/kg	0.0033 mg/kg
	TPH	8015B	GRO	4 mg/kg	4 mg/kg
			KRO	5 mg/kg	5 mg/kg
			ORO	5 mg/kg	5 mg/kg
			DRO	5 mg/kg	5 mg/kg
Water	VOC	8260B	benzene	0.001 mg/L	0.001 mg/L
			toluene	0.001 mg/L	0.001 mg/L
			ethylbenzene	0.001 mg/L	0.001 mg/L
			xylenes	0.002 mg/L	0.002 mg/L
			MTBE	0.010 mg/L	0.010 mg/L
	Lead	6010B	lead	0.003 mg/L	0.003 mg/L
	PAH	8270C SIMS	18 PAHs	0.045 ug/L	Lowest Possible
	TPH	8015B	GRO	0.1 mg/L	0.1 mg/L
			KRO	0.1 mg/L	0.1 mg/L
			ORO	0.1 mg/L	0.1 mg/L
			DRO	0.1 mg/L	0.1 mg/L

Level III data packages will be requested for ~~at least 10%~~ of the analyses.
100%
8-8-03

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ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 346477

Client: Shaw

Cooler Received On: 9/12/03 And Opened On: 9/12/03 By: Paul R Buckingham II

(Signature)

1. Temperature of Cooler when opened 0.6 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO....NA
   a. If yes, how many, what kind and where: 1 front
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice pack Ice(direct contact) Dry ice Other None
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA 5-7
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA 1 NP
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA Liter B-25.
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

Recd OPO/DRO KRO items for 11092

Fed Ex Airbill #'s: 838191061873, 838199731699, 834304880010, 838199777945
838199779485, 838191063979, 838191030680, 8.. 191064254, 838191064335

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ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring * See special Instructions

346477

Client Name: Shaw Environmental, Inc./PQS Client #: 3277
Address: 1400B Ohio Ave.
City/State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304-768-2600 Fax: 304-768-4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: [signature]

Project Name: PQS#5117 - Etowah Terminal
Project #: 845337
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: PO#:

TAT
X Standard
__ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

QC Deliverables
__ None
__ Level 2 (Batch QC)
X Level 3
__ Level 4
Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: 8260B BTEX/MTBE	6010 Lead Total	6010 Lead Dissolved Field Filtered	8270C SIMS	8021B TPH-GRO	8015B TPH DRO/ORO/KRO					REMARKS
22033	9-11-03	0800	G	Y	GW	2	5				2		X	X	X	X	X	X		142	225		Extract and
20030	9-11-03	1000	G	Y	GW	2	5				2		X	X	X	X	X	X			26		Hold PAHs
E-1	9-11-03	1015	G	Y	GW	2	5				2		X	X	X	X	X	X			27		pending Analyses
E-2	9-11-03	1030	G	Y	GW	2	5				2		X	X	X	X	X	X			28		
E-3	9-11-03	1045	G	Y	GW	2	5				2		X	X	X	X	X	X			29		
20031	9-11-03	1100	G	Y	GW	2	5				2		X	X	X	X	X	X			30		
E-4	9-11-03	1115	G	Y	GW	2	5				2		X	X	X	X	X	X			31		
E-5	9-11-03	1130	G	Y	GW	2	5				2		X	X	X	X	X	X			32		
E-6	9-11-03	1140	G	Y	GW	2	5				2		X	X	X	X	X	X		1422	33		
20032	9-11-03	1300	G	Y	GW	2	5				2		X	X	X	X	X	X		14	2246		

Special Instructions: See attached yellow sheet regarding analysis (100% of analyses will be Level III data packages)
Extract and hold PAHs pending analytical results

Relinquished By: [signature]	Date: 9-11-03	Time: 1830	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [signature]	Date: 8/12/03	Time: 8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring *see special Instructions

346477

Client Name: Shaw Environmental, Inc./PQS Client #: 3277
Address: 1400B Ohio Ave
City/State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304-768-2600 Fax: 304-768-4523
Sampler Name: (Print Name) Kirk E. Curry
Sampler Signature: Kirk E. Curry

Project Name: PQS #5117 - Etowah Terminal
Project #: 845337
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: 8260B BTEX/MTBE	6010 Lead - Total	6010 Lead - Dissolved Field Filtered	8270C SIMS	8021B TPH-GRO	8015B TPH DRO/KRO KRO					REMARKS
20032 MS	9-11-03	1300	G	Y	GW	2	5				2		X	X	X	X	X	X		(See above)			Extract and
20032 MSD	9-11-03	1300	G	Y	GW	2	5				2		X	X	X	X	X	X					Hold PAHs
E-7	9-11-03	1315	G	Y	GW	2	5				2		X	X	X	X	X	X		142234			pending analysis
E-8	9-11-03	1330	G	Y	GW	2	5				2		X	X	X	X	X	X			35		
E-9	9-11-03	1345	G	Y	GW	2	5				2		X	X	X	X	X	X			36		
20033	9-11-03	1400	G	Y	GW	2	5				2		X	X	X	X	X	X			37		
E-10	9-11-03	1415	G	Y	GW	2	5				2		X	X	X	X	X	X			38		
E-11	9-11-03	1430	G	Y	GW	2	5				2		X	X	X	X	X	X			39		
E-12	9-11-03	1445	G	Y	GW	2	5				2		X	X	X	X	X	X			40		
20034	9-11-03	1500	G	Y	GW	2	5				2		X	X	X	X	X	X		1422	41		

Special Instructions: See attached yellow sheet regarding analysis (100% of analysis will be Level III pending analysis)
Extract and Hold PAH's pending analytical results

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Kirk E. Curry	9-11-03	1830			
			Mg	9/12/03	8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
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To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring * see special Instructions

346477

Client Name: Shaw Environmental, Inc./PQS Client #: 3277
Address: 1400 B Ohio Ave
State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304-768-2600 Fax: 304-768-4523
Sampler Name: (Print Name) Kirk E Curry
Sampler Signature: Kirk E Curry

Project Name: PQS #5117 - Etowah Terminal
Project #: 845337
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: PO#:

TAT
X Standard
__ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
__ None
__ Level 2 (Batch QC)
X Level 3
__ Level 4
Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify) (2) NH_4SO_4 (1) CH_4O	Analyze For: 8260B BTEX/MTBE	6010 Lead - Total	6010 Lead - Dissolved Field Filtered	8270C SIMS	8021B TPH-GRO	8015B TPH-DRO/~~KRO~~ ORO/KRO	8015B TPH-GRO				REMARKS
E-13	9-11-03	1515	G	Y	GW	2	5				2		X	X	X	X	X	X		142242			Extract and
E-14	9-11-03	1530	G	Y	GW	2	5				2		X	X	X	X	X	X		142243			Hold PAH's
E-15	9-11-03	1545	G	Y	GW	2	5				2		X	X	X	X	X	X		142244			pending analyses
10088	9-11-03	1630	G	N	S						4	3	X	X		X		X	X		142247		
10089	9-11-03	1640	G	N	S						4	3	X	X		X		X	X		1	48	
10090	9-11-03	1650	G	N	S						4	3	X	X		X		X	X			49	
10091	9-11-03	1700	G	N	S						4	3	X	X		X		X	X		142250		
10092	9-11-03	1710	G	N	S						4	3	X	X		X		X	X			142252	
10092 MS	9-11-03	1710	G	N	S						4	3	X	X		X		X	X				
10092 MSD	9-11-03	1710	G	N	S						4	3	X	X		X		X	X				

Special Instructions: See attached Yellow Sheet regarding analyses (100% of analyses will be Level III data packages)
Extract and Hold PAH's pending analytical results

Relinquished By: Kirk E Curry	Date: 9-11-03	Time: 1830	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: RY	Date: 9/12/03	Time: 8:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
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346477

Client Name: Shaw Environmental, Inc./PQS Client #: 3277
Address: 1400B Ohio Ave.
City/State/Zip Code: Dunbar, WV 25064
Project Manager: David Carpenter
Telephone Number: 304-768-2600 Fax: 304-768-4523
Sampler Name: (Print Name) Kirk E. Carey
Sampler Signature: Kirk E. Carey

Project Name: PQS # 5117 - Etowah Terminal
Project #: 845337
Site/Location ID: Charleston State: WV
Report To: David Carpenter / George Robertson
Invoice To: PQS
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: ___
Fax Results: Y N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other
Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify(2) NH_4Cl, $CuCl_2$, $CuSO_4$)
Analyze For: 8260B BTEX/MTBE; 6010 Lead Total; 8270C SIMS; 8021B TPH-GRO; 8015B TPH-GRO; 8015B TPH DRO/ORO KRO

QC Deliverables: ___ None; ___ Level 2 (Batch QC); X Level 3; ___ Level 4; Other: ___

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other	8260B BTEX/MTBE	6010 Lead Total	8270C SIMS	8021B TPH-GRO	8015B TPH-GRO	8015B TPH DRO/ORO KRO					REMARKS
~~12092~~ REC 12089	9-11-03	0815	G	N	S						4	3	X	X	X		X	X			142251		Extract and Hold
11092	9-11-03	1725	G	N	GW	1	5				2		X	X	X	X	X			142244		45	PAH's pending
TB-9	Lab	Lab					2						X						142224				Analyses

Special Instructions: See attached yellow sheet for analyses (100% of analyses will be Level III data packages)
Extract and Hold PAH's pending analytical results

Relinquished By: Kirk E. Carey	9-11-03 Date:	1830 Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	9/12/03 Date:	8:20 Time:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION

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10/28/03 CASE NARRATIVE

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: PQS 5117
Project Number: 845137-03000000.
Laboratory Project Number: 351382.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
MW-8 HVR-AIR	03-A165214	10/21/03
CARBON EFFLUENT	03-A165215	10/21/03
Trip Blank	03-A165216	

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Report Date: 10/28/03

Ashley Morris, Lab Director
Michael H. Dunn, M.S., QA/QC Director
Johnny A. Mitchell, Operations Manager Organics
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 219

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845137-03000000
Project Name: PQS 5117
Sampler: ROY HENDERSON

Lab Number: 03-A165214
Sample ID: MW-8 HVR-AIR
Sample Type: Air bag
Site ID:

Date Collected: 10/21/03
Time Collected: 12:30
Date Received: 10/23/03
Time Received: 10:15

Analyte	Result mg/m3	Result PPMV	Dilution Factor	Analysis Date	Analysis Time	Analyst	Method
Toluene	2.23	0.591	1.	10/24/03	18:23	C. Bailey	EPA-18M
Benzene	5.38	1.68	1.	10/24/03	18:23	C. Bailey	EPA-18M
Ethyl benzene	1.12	0.258	1.	10/24/03	18:23	C. Bailey	EPA-18M
Xylene	5.58	1.28	1.	10/24/03	18:23	C. Bailey	EPA-18M
TRPH Lo >C4-C10	96.2	23.5	1.	10/24/03	18:23	C. Bailey	EPA-18M

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845137-03000000
Project Name: PQS 5117
Sampler: ROY HENDERSON

Lab Number: 03-A165215
Sample ID: CARBON EFFLUENT
Sample Type: Water
Site ID:

Date Collected: 10/21/03
Time Collected: 16:30
Date Received: 10/23/03
Time Received: 10:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	<0.00100	mg/l	0.00100	1.0	10/24/03	18:07	H. Wagner	8021B	8557
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	10/24/03	18:07	H. Wagner	8021B	8557
Toluene	<0.0010	mg/l	0.0010	1.0	10/24/03	18:07	H. Wagner	8021B	8557
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	10/24/03	18:07	H. Wagner	8021B	8557

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	100.	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

Pennzoil-Quaker State 3277
DAN MCQUILLEN
700 MILAM
HOUSTON, TX 77002

Project: 845137-03000000
Project Name: PQS 5117
Sampler: ROY HENDERSON

Lab Number: 03-A165216
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 10/23/03
Time Received: 10:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	<0.00100	mg/l	0.00100	1.0	10/24/03	18:38	H. Wagner	8021B	8557
Ethylbenzene	<0.0010	mg/l	0.0010	1.0	10/24/03	18:38	H. Wagner	8021B	8557
Toluene	<0.0010	mg/l	0.0010	1.0	10/24/03	18:38	H. Wagner	8021B	8557
Xylenes (Total)	<0.0010	mg/l	0.0010	1.0	10/24/03	18:38	H. Wagner	8021B	8557

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
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End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 845137-03000000
Project Name: PQS 5117
Page: 1
Laboratory Receipt Date: 10/23/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/l	< 0.00100	0.0597	0.0500	119	60. - 143.	8557	03-A165859
Toluene	mg/l	< 0.0010	0.0575	0.0500	115	62. - 139.	8557	03-A165859
Ethylbenzene	mg/l	< 0.0010	0.0583	0.0500	117	61. - 138.	8557	03-A165859
Xylenes (Total)	mg/l	< 0.0010	0.115	0.100	115	59. - 137.	8557	03-A165859
BTEX/GRO Surr., a,a,a-TFT	% Recovery				99	69 - 129	8557	
MISC PARAMETERS								
Toluene	mg/m3	< 0.508	17.2	19.0	91	70. - 130.	7523	03-A165130
Benzene	mg/m3	< 0.508	14.6	16.1	91	70. - 130.	7523	03-A165130
Xylene	mg/m3	< 1.52	57.8	65.8	88	70. - 130.	7523	03-A165130
Ethyl benzene	mg/m3	< 0.508	19.1	21.9	87	70. - 130.	7523	03-A165130
TRPH Lo >C4-C10	mg/m3	< 10.2	189.	209.	90	70. - 130.	7523	03-A165130

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0597	0.0604	1.17	23.	8557
Toluene	mg/l	0.0575	0.0579	0.69	24.	8557
Ethylbenzene	mg/l	0.0583	0.0589	1.02	24.	8557
Xylenes (Total)	mg/l	0.115	0.116	0.87	25.	8557
BTEX/GRO Surr., a,a,a-TFT	% Recovery		99.			8557

roject QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845137-03000000
Project Name: PQS 5117
Page: 2
Laboratory Receipt Date: 10/23/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.100	100	74 - 120	8557
Toluene	mg/l	0.100	0.0979	98	73 - 118	8557
Ethylbenzene	mg/l	0.100	0.0998	100	72 - 118	8557
Xylenes (Total)	mg/l	0.200	0.198	99	72 - 116	8557
BTEX/GRO Surr., a,a,a-TFT	% Recovery			101	69 - 129	8557
MISC PARAMETERS						
Toluene	mg/m3	19.0	18.2	96	70 - 130	7523
Toluene	mg/m3	19.0	18.3	96	70 - 130	7523
Toluene	mg/m3	19.0	18.4	97	70 - 130	7523
Toluene	mg/m3	19.0	17.8	94	70 - 130	7523
Benzene	mg/m3	16.1	15.9	99	70 - 130	7523
Benzene	mg/m3	16.1	16.2	101	70 - 130	7523
Benzene	mg/m3	16.1	16.4	102	70 - 130	7523
Benzene	mg/m3	16.1	16.4	102	70 - 130	7523
Xylene	mg/m3	65.8	62.9	96	70 - 130	7523
Xylene	mg/m3	65.8	63.1	96	70 - 130	7523
Xylene	mg/m3	65.8	60.6	92	70 - 130	7523
Xylene	mg/m3	65.8	59.8	91	70 - 130	7523
Ethyl benzene	mg/m3	21.9	20.8	95	70 - 130	7523
Ethyl benzene	mg/m3	21.9	20.8	95	70 - 130	7523
Ethyl benzene	mg/m3	21.9	20.3	93	70 - 130	7523
Ethyl benzene	mg/m3	21.9	19.9	91	70 - 130	7523
TRPH Lo >C4-C10	mg/m3	209.	204.	98	70 - 130	7523
TRPH Lo >C4-C10	mg/m3	209.	205.	98	70 - 130	7523
TRPH Lo >C4-C10	mg/m3	209.	200.	96	70 - 130	7523
TRPH Lo >C4-C10	mg/m3	209.	195.	93	70 - 130	7523

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 845137-03000000
Project Name: PQS 5117
Page: 3
Laboratory Receipt Date: 10/23/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Toluene	mg/m3	3.25	3.76	14.55	15.	7523	03-A165148
Benzene	mg/m3	6.70	5.99	11.19	15.	7523	03-A165148
Xylene	mg/m3	20.6	20.1	2.46	15.	7523	03-A165148
Ethyl benzene	mg/m3	2.74	3.35	20.03 #	15.	7523	03-A165148
TRPH Lo >C4-C10	mg/m3	184.	202.	9.33	15.	7523	03-A165148

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00050	mg/l	8557	10/24/03	17:35
Toluene	< 0.0005	mg/l	8557	10/24/03	17:35
Ethylbenzene	< 0.0005	mg/l	8557	10/24/03	17:35
Xylenes (Total)	< 0.0005	mg/l	8557	10/24/03	17:35
BTEX/GRO Surr., a,a,a-TFT	100.	% Recovery	8557	10/24/03	17:35
MISC PARAMETERS					
Toluene	< 0.508	mg/m3	7523	10/23/03	15:42
Toluene	< 0.508	mg/m3	7523	10/24/03	9:21
Toluene	< 0.508	mg/m3	7523	10/24/03	16:10
Toluene	< 0.508	mg/m3	7523	10/27/03	9:22
Benzene	< 0.508	mg/m3	7523	10/23/03	15:42
Benzene	< 0.508	mg/m3	7523	10/24/03	9:21
Benzene	< 0.508	mg/m3	7523	10/24/03	16:10
Benzene	< 0.508	mg/m3	7523	10/27/03	9:22

roject QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 845137-03000000
Project Name: PQS 5117
Page: 4
Laboratory Receipt Date: 10/23/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Xylene	< 1.52	mg/m3	7523	10/23/03	15:42
Xylene	< 1.52	mg/m3	7523	10/24/03	9:21
Xylene	< 1.52	mg/m3	7523	10/24/03	16:10
Xylene	< 1.52	mg/m3	7523	10/27/03	9:22
Ethyl benzene	< 0.508	mg/m3	7523	10/23/03	15:42
Ethyl benzene	< 0.508	mg/m3	7523	10/24/03	9:21
Ethyl benzene	< 0.508	mg/m3	7523	10/24/03	16:10
Ethyl benzene	< 0.508	mg/m3	7523	10/27/03	9:22
TRPH Lo >C4-C10	< 10.2	mg/m3	7523	10/23/03	15:42
TRPH Lo >C4-C10	< 10.2	mg/m3	7523	10/24/03	9:21
TRPH Lo >C4-C10	< 10.2	mg/m3	7523	10/24/03	16:10
TRPH Lo >C4-C10	< 10.2	mg/m3	7523	10/27/03	9:22

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 351382

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM **BC#** 351382

PQS

Client: Shaw E + I

Cooler Received On: 10/23/03 **And Opened On:** 10/23/03 **By:** James Jacobs

(Signature)

1. Temperature of Cooler when opened 1.2 **Degrees Celsius**
2. Were custody seals on outside of cooler?.....YES...NO....NA
   a. If yes, how many, what kind and where: 2 Tape Front
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES....NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice pack Ice(direct contact) Dry ice Other None
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

1 of 1

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

3277

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

351382

Client Name: Shaw E&I
Client #: _____
Address: 1480 R Ohio Ave
City/State/Zip Code: Dunbar WV 25064
Project Manager: Dave Carpenter
Telephone Number: 304-768-2600 Fax: 304-768-4523
Sampler Name: (Print Name) Ray C Henderson
Sampler Signature: Ray C Henderson

Project Name: PQS 5117
Project #: 845137-0300000
Site/Location ID: Etowah State: WV
Report To: Shaw E&I Dave Carpenter
Invoice To: PQS Dan McQuillen
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX TPH methods	BTEX 8021B										REMARKS
MW-8 HVR-Air	8-21	1230	G	N	Air						X		X					165	214					
Carbon effluent	8-21	1630	G	N	ww		X							X				165	215					
trip Blank	Lab	Lab			trip		X							X				165	216					

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.2°C
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Ray C Henderson	10-22-03		J Gardner	10/23/03	1015
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

APPENDIX E

MOBILE TREATMENT UNIT RECOVERY DATA

MTU RECOVERY DATA
Pennzoil - Quaker State Site No. 5117
1015 Barlow Rd.
Charleston, West Virginia

Date	Time	Recovery Well (TMW/SB-7D)							MW-1		MW-7	
		Air Exhaust			Water Discharge		Cumulative	System	(100 ft. from TMW/SB-7D)		(280 ft. from TMW/SB-7D)	
		FID (ppm-v/v)	Temp (°F)	Flow (scfm)	Flow (gpm)	Volume (gal.)	Liquid (gal.)	Vacuum (in. Hg)	DTW (Feet)	Vacuum (in.H_2O)	DTW (Feet)	Vacuum (in.H_2O)
9/12/2003	900	--	--	--	--	--	0	--	16.00	--	35.84	--
	1000	9.0	93	47	0	0	0	--	16.00	0.0	35.84	0.0
	1100*	9.7	105	43	0	0	0	--	16.01	0.5	35.85	0.8
	1200	2.3	112	49	0	0	0	--	16.03	1.4	35.87	1.6
	1300	0.9	113	49	0	0	0	--	16.04	1.4	35.87	1.4
	1400	0.0	118	49	0	0	0	--	16.04	1.2	35.87	1.4
	1500	0.0	115	53	0	0	0	--	16.04	1.4	35.88	1.6
	1600	0.0	118	51	0	0	0	--	16.04	1.6	35.88	1.8
	1700	0.0	119	53	0	0	0	--	16.04	1.6	35.88	1.8
	Average	2.7	112	49	0	0	NA	NA	NA	NA	NA	NA

NA - not applicable
MTU = mobile treatment unit
FID = flame ionization detector
ppm-v/v = parts per million - vapor by volume
°F = degrees Fahrenheit
scfm = standard cubic feet per minute
gal. = gallons
gpm = gallons per minute
in. Hg = inches Mercury
-- = no data
* = time of air exhaust sampling

VAPOR-PHASE HYDROCARBON RECOVERY
Pennzoil - Quaker State Site No. 4013
2001 MacCorkle Avenue
St. Albans, West Virginia

Date	Operation Time (hours)	Vapor Flow Rate (scfm)	Vapor Concentrations			Vapor Mass Removed*			Total Hydrocarbons^ (lb)
			Benzene (mg/m^3)	Total BTEX (mg/m^3)	TPH (mg/m^3)	Benzene (lb)	Total BTEX (lb)	TPH (lb)	
9/12/2003	8	49	0.508	9.44	37.5	0.00	0.01	0.06	0.07

scfm - standard cubic feet per minute

mg/m^3 - milligrams per cubic meter

lb - pound

BTEX - Benzene, Toluene, Ethylbenzene and Xylenes

TPH - total petroleum hydrocarbons

* Calculation Formula = Vapor Flow Rate x Vapor Concentration x Operation Time x Conversion factor

^ Sum of BTEX and TPH recovery

MTU RECOVERY DATA
Pennzoil - Quaker State Site No. 5117
1015 Barlow Rd.
Charleston, West Virginia

Date	Time	Recovery Well (MW-8)							MW-1		MW-7	
		Air Exhaust			Water Discharge		Cumulative	System	(100 ft. from TMW/SB-7D)		(280 ft. from TMW/SB-7D)	
		FID (ppm-v/v)	Temp (°F)	Flow (scfm)	Flow (gpm)	Volume (gal.)	Liquid (gal.)	Vacuum (in. Hg)	DTW (Feet)	Vacuum (in.H_2O)	DTW (Feet)	Vacuum (in.H_2O)
10/21/03	0830	--	--	--	--	--	0	--	16.56	--	36.45	--
	0930	7.6	72	6	3	170	170	--	16.57	0.0	36.46	0.0
	1030	8.3	77	6	6	350	520	--	16.58	0.1	36.47	0.1
	1130	8.7	74	5	8	490	1,010	--	16.59	0.1	36.46	0.1
	1230	10.8	76	4	5	280	1,290	--	16.59	0.1	36.46	0.1
	1330	8.7	77	4	1	70	1,360	--	16.59	0.1	36.47	0.1
	1430	7.6	78	4	11	640	2,000	--	16.59	0.1	36.47	0.1
	1530	7.7	77	4	7	400	2,400	--	16.59	0.1	36.46	0.1
	1630	6.8	77	4	5	300	2,700	--	16.59	0.1	36.46	0.1
	Average	8.3	76	4	6	338	NA	NA	NA	NA	NA	NA

NA - not applicable
MTU = mobile treatment unit
FID = flame ionization detector
ppm-v/v = parts per million - vapor by volume
°F = degrees Fahrenheit
scfm = standard cubic feet per minute
gal. = gallons
gpm = gallons per minute
in. Hg = inches Mercury
-- = no data
* = time of air exhaust sampling

VAPOR-PHASE HYDROCARBON RECOVERY
Pennzoil - Quaker State Site No. 4013
2001 MacCorkle Avenue
St. Albans, West Virginia

Date	Operation Time (hours)	Vapor Flow Rate (scfm)	Vapor Concentrations			Vapor Mass Removed*			Total Hydrocarbons^ (lb)
			Benzene (mg/m^3)	Total BTEX (mg/m^3)	TPH (mg/m^3)	Benzene (lb)	Total BTEX (lb)	TPH (lb)	
10/21/2003	8	4	5.38	14.31	96.2	0.00	0.00	0.01	0.01

scfm - standard cubic feet per minute

mg/m^3 - milligrams per cubic meter

lb - pound

BTEX - Benzene, Toluene, Ethylbenzene and Xylenes

TPH - total petroleum hydrocarbons

* Calculation Formula = Vapor Flow Rate x Vapor Concentration x Operation Time x Conversion factor

^ Sum of BTEX and TPH recovery

APPENDIX F

LEVEL III DATA VALIDATION REPORTS

RELEASE OF VALIDATED DATA

Project:	Pennzoil Quaker State #5117, Etowah Terminal
Date:	October 31, 2003
Lab Job Number:	339697
Reviewer:	Richard W. McCracken

Validation was performed on the volatile (solvent scan), methanol, 2-ethoxyethanol, hexavalent chromium, and metals analytical results for 10% of the 9 soil samples collected at the Pennzoil Quaker State Etowah terminal in Charleston, West Virginia. Test America of Nashville, Tennessee analyzed the samples using SW-846 methods. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Organics – 9/94, and Inorganics - 4/93)*, as applied to SW-846 methodology. Level III data packages are required for the work being performed at Etowah. Level III data packages do not include raw data, therefore no raw data review could be performed. Samples validated in this data set included:

Field Sample ID	Lab Sample ID
10016	03-A110554

The following QC parameters were reviewed:

SAMPLE RECEIPT

Preservatives: The cooler temperature upon receipt at the laboratory was 1.4°C, below the 2-6 °C criteria. No sample degradation was likely to have occurred due to the colder temperature, and no data qualification was required.

VOLATILE ORGANICS (SOLVENT SCAN)

Method: SW-846 Method 8260B

Holding Time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. All samples met holding times.

Tuning and Mass Calibration: All BFB tunes met ion abundance criteria. Each tune, except for the initial calibration, was followed by a calibration verification standard and method blank prior to sample analysis. The samples were analyzed within 12 hours of the BFB tuning standard.

Initial Calibrations: The initial calibration from instrument HP-18 analyzed on 7/16/03 (for the standard 8260 list of compounds) met the percent relative standard deviation (RSD) criteria of less than 30% for each of the Calibration Check Compounds (CCCs). (The CCCs are 1,1-

dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, toluene, and vinyl chloride.) Additionally, each target compound should have an RSD less than 15 percent. Carbon disulfide (17.77%) had an RSD > 15%. The lab performed a linear regression for this compound, and it had an r^2 value > 0.98 indicating an acceptable fit – no data qualification was required. All SPCCs [chloromethane (0.10), 1,1-dichloroethane (0.10), bromoform (0.10), chlorobenzene (0.30), and 1,1,2,2-tetrachloroethane (0.30)] met RRF criteria. Acetone (0.020), 2-butanone (0.028), and n-butanol (0.019) had RRFs < 0.05, and the associated sample results have been qualified "J". All other target compounds had RRFs > 0.05.

The 7/29/03 initial calibration (for two Appendix 9 compounds: isobutyl alchohol and cyclohexanone) from instrument HP-10 did not include all of the Calibration Check Compounds (CCCs). Therefore, each target compound was evaluated individually to determine if its RSD was less than 15 percent. Isobutyl alcohol (27.45%) and cyclohexanone (56.22%) had RSDs > 15%. The lab performed a linear regression for each of these compounds, and they had r^2 values > 0.98 indicating an acceptable fit. Isobutyl alcohol (0.023) had an RRF < 0.05, and all results for this compound has been qualified "J". Cyclohexanone had an RRF > 0.05.

Calibration Verification: The 8260 list calibration verification performed on 7/28 @2300 for instrument HP-18 met the SPCC criteria and the CCC<20% D criteria for all CCCs except vinyl chloride. Vinyl chloride had a %D of 20.3%, and all associated sample results have been qualified "J" All target compounds had %D <20%. Acetone (0.019) and 2-butanone (0.029) had RRFs < 0.05, and the associated sample results have been qualified "J". All other target compounds had RRFs > 0.05.

Sample analysis for isobutyl alcohol and cyclohexanone was performed immediately following the ICAL, so no calibration verification was required.

Internal Standards: All samples met area and retention time criteria.

Blanks: Methylene chloride was detected in method blank VBLK1 at a concentration of 1 ug/kg and in VBLK2 at a concentration of 2 ug/kg. The methylene chloride result in 10016, has been qualified "B".

Surrogates: Bromofluorobenzene had a high recovery in 10016, and all sample results have therefore been qualified "J". All other surrogate recoveries met criteria.

Matrix Spike/Duplicate: MS/MSD analysis was performed on 10044. All compounds in both the MS and MSD had low recoveries, and 4 of 5 RPDs were above criteria. All sample results have already been qualified, so no further action is needed.

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria for all compounds.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the volatile results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
10016	All except methylene chloride	J
10016	Methylene chloride	BJ

METHANOL

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. Sample 10016 was analyzed 1 day beyond the holding time criteria, and the results have been qualified "J".

Initial Calibration: The 7/18/03 methanol initial calibration had an RSD of 6.26%, which met the <15% criteria

Calibration Verification: All calibration verifications met the recovery criteria of 70-130%.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: Surrogate spike analysis was not performed. No data qualification was required.

Matrix Spike/Duplicate: The matrix spike performed on a non-Pennzoil Quaker State sample met recovery and RPD criteria.

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
10016	Methanol	J

2-ETHOXYETHANOL

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. Sample 10016 was analyzed 6 days beyond the holding time criteria, and the results have been qualified "J".

Initial Calibration: The linear regression performed on the 7/28/03 2-ethoxyethanol initial

calibration data had an r^2 value > 0.98 indicating an acceptable fit.

Calibration Verification: All calibration verifications met the recovery criteria of 70-130%.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: Surrogate spike analysis was not performed. No data qualification was required.

Matrix Spike/Duplicate: The matrix spike was performed on a non-Pennzoil Quaker State, and had a low MSD recovery and a high RPD. No data qualification was needed since the results are not representative of Pennzoil Quaker State samples.

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
10016	2-Ethoxyethanol	J

CADMIUM, CHROMIUM (total), LEAD

Method: SW-846 Method 6010B

Holding Time: The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

Initial and Continuing Calibration Verification: All of the ICVs and CCVs met the 90-110% criteria.

Blanks: No cadmium or lead were detected in any of the calibration or preparation blanks. Chromium (total) was detected in one of the calibration blanks and the preparation blank, but the sample result was greater than 5X the highest blank concentration so no data qualification was required.

ICP Interference Check: All target metals met the ICP interference check criteria of 80-120%.

Matrix spikes: Matrix spike analysis was performed on 10014, and met the 75-125% recovery criteria.

Duplicates: Duplicate analysis was performed on 10014. All results met the RPD criteria of < 20

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The LCS associated with these samples met the 80-120% recovery criteria.

Serial Dilution: All serial dilution results met the < 10% D criteria for metals with detections > 50X the IDL.

Raw Data Review: Raw data review could not be performed.

Summary: All of the metals results were acceptable as reported.

HEXAVALENT CHROMIUM

Method: SW-846 Method 3060A/7196A

Holding Time: The holding time requirement is 30 days. All of the samples were analyzed within the holding time.

Initial and Continuing Calibration Verification: The initial calibration had a linear regression r^2 value >0.98, indicating acceptable fit. The ICV and CCV met the 90-110% criteria.

Blanks: No hexavalent chromium was detected in the preparation blank.

Matrix spikes: Matrix spike analysis was performed on a non-Pennzoil Quaker State sample, and met the 75-125% recovery criteria.

Duplicates: Duplicate analysis was performed on a non-Pennzoil Quaker State sample. The RPD met the criteria of < 20%.

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The LCS associated with these samples met the 80-120% recovery criteria.

Raw Data Review: Raw data review could not be performed.

Summary: All of the metals results were acceptable as reported with no qualifications.

RELEASE OF VALIDATED DATA

Project: Pennzoil Quaker State #5117, Etowah Terminal
Date: October 31, 2003
Lab Job Number: 339794
Reviewer: Richard W. McCracken

Validation was performed on the volatile, polynuclear aromatic hydrocarbon, TPH-GRO, TPH-DRO & ORO, and lead analytical results for 10% of the 63 soil samples collected at the Pennzoil Quaker State Etowah terminal in Charleston, West Virginia. Test America of Nashville, Tennessee analyzed the samples using SW-846 methods. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Organics – 9/94, and Inorganics - 4/93)*, as applied to SW-846 methodology. Level III data packages are required for the work being performed at Etowah. Level III data packages do not include raw data, therefore no raw data review could be performed. Samples validated in this data set included:

Field Sample ID	Lab Sample ID	Field Sample ID	Lab Sample ID
10001	03-A111008	10026	03-A111012
10002	03-A111009	10076	03-A111013
10003	03-A111010	10077	03-A111014
10025	03-A111011		

The following QC parameters were reviewed:

SAMPLE RECEIPT

Preservatives: The cooler temperature upon receipt at the laboratory was 1°C, below the 2-6 °C criteria. No sample degradation was likely to have occurred due to the colder temperature, and no data qualification was required.

VOLATILE ORGANICS

Method: SW-846 Method 8260B

Holding Time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. All samples met holding times.

Tuning and Mass Calibration: All BFB tunes met ion abundance criteria. Each tune, except for the initial calibration, was followed by a calibration verification standard and method blank prior to sample analysis. The samples were analyzed within 12 hours of the BFB tuning

standard.

Initial Calibrations: The initial calibration from instrument HP-10 analyzed on 7/16/03 met the percent relative standard deviation (RSD) criteria of less than 30% for each of the Calibration Check Compounds (CCCs). The CCCs are 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, toluene, and vinyl chloride. All other target compounds met the RSD (< 15%) criteria.

All SPCCs from the 7/16 ICAL met RRF criteria. The SPCCs (and RRF criteria) are chloromethane (0.10), 1,1-dichloroethane (0.10), bromoform (0.10), chlorobenzene (0.30), and 1,1,2,2-tetrachloroethane (0.30). All target compounds had RRFs > 0.05.

Calibration Verification: The calibration verification performed on 7/23 @1008 for instrument HP-10 met the SPCC criteria. Two CCCs (1,1-dichloroethene – 33.6% and chloroform – 28.8%) had %D above the 20% criteria. The volatile results in all samples have been qualified "J". All other CCCs met the <20% D criteria. All target compounds had %D <20% and RRFs > 0.05.

The calibration verification performed on 7/25 @1645 for instrument HP-10 met the SPCC criteria. One CCC (vinyl chloride – 48.0%) had a %D above the 20% criteria. The volatile results in associated samples 10076 and 10077 have been qualified "J". All other CCCs met the <20% D criteria. All target compounds had %D <20% and Refs > 0.05.

Internal Standards: Sample 10025 had a low internal standard area for 1,4-dichlorobenzene-d4. No target compounds were quantitated from 1,4-dichlorobenzene-d4, so no data qualification was needed. All other samples met area and retention time criteria.

Blanks: No target compounds were detected in method blanks VBLK01 and VBLK02, or in trip blank TB-4.

Field blank 11003 contained 1.1 ug/l of toluene. The toluene results in 10002, 10025, 10026, and 10077 have been qualified "B". All other sample results were non-detect or greater than 5X the blank concentration so no data qualification was needed.

Surrogates: Sample 10025 had a high recovery for 4-bromofluorobenzene. All results in 10025 have been qualified "J". All other samples met surrogate recovery criteria.

Matrix Spike/Duplicate: MS/MSD analysis was performed on a non-Pennzoil Quaker State sample. All recoveries and RPDs met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All parameters met the <50% RPD or ± 2x MDL (method detection limit) criteria with the exception of ethylbenzene and toluene in one duplicate. The two exceptions were likely due to sample heterogeneity, and no data qualification was needed.

Laboratory Control Sample: The laboratory control sample met recovery criteria for all compounds.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the volatile results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
10002, 10025, 10026, 10077	Toluene	BJ
10002, 10025, 10026, 10077	All except toluene	J
10001, 10003, 10076	All	J

POLYNUCLEAR AROMATIC HYDROCARBONS

Method: SW-846 Method 8270C-SIM

Holding time: The holding time requirements are 7 days to extraction for aqueous samples (preserved or unpreserved), 14 days to extraction for soil samples, and 40 days from extraction to analysis for aqueous and soil samples. All samples met holding time criteria.

Tuning and Mass Calibration: All DFTPP tunes met ion abundance criteria. All samples were analyzed within 12 hours of the DFTPP tuning standard.

Initial Calibration: The 6/7/03 initial calibration from instrument O-HP38 did not include all of the Calibration Check Compounds (CCCs). Therefore, each target compound was evaluated individually to determine if its RSD was less than 15 percent. Naphthalene (31.39%), 2-methylnaphthalene (22.83%), 1-methylnaphthalene (19.47%), phenanthrene (20.08%), anthracene (16.48%), benzo(b)fluoranthene (23.76%), benzo(a)pyrene (27.36%), indeno(1,2,3-cd)pyrene (44.12%), dibenzo(a,h)anthracene (41.10%), and benzo(g,h,i)perylene (29.48%) had RSDs > 15%. The lab performed a linear regression for each of these compounds, and all compounds had r^2 values > 0.98 indicating an acceptable fit – no data qualification was required. SPCC analysis was not included in this ICAL, but all target compounds had RRFs > 0.05.

Calibration Verification: The calibration verification performed on 7/21/03 @1032 for instrument O-HP38 met the <20% D for all compounds except pyrene (25.7%), benzo(a)anthracene (24.3%), benzo(b)fluoranthene (22.1%), benzo(a)pyrene (34.4), and surrogate nitrobenzene-d5(21.1%). The only sample associated with this calibration verification was the laboratory control sample which had acceptable recoveries for all target compounds, so no data qualification was needed. All target compounds met the RRF > 0.05 criteria.

The calibration verification performed on 7/21/03 @2259 for instrument O-HP38 met the <20% D for all compounds except surrogate nitrobenzene-d5(29.5%). Sample results will be qualified as detailed in the surrogate section of this report. All target compounds met the RRF > 0.05 criteria.

The calibration verification performed on 7/22/03 @1227 for instrument O-HP38 met the <20% D for all compounds except surrogate nitrobenzene-d5(29.5%). Sample results will be qualified as detailed in the surrogate section of this report. All target compounds met the RRF > 0.05

criteria.

Internal Standards: All samples met area and retention time criteria.

Blanks: No target compounds were detected in the method blank associated with these samples. Field blank 11003 contained 0.26 ug/l of naphthalene. All sample results were non-detect or greater than 5X the blank concentration so no data qualification was needed.

Surrogates: Samples 10001, 10001MSD, 10003, and 10076 had high nitrobenzene-d5 recoveries. Two surrogates must be outside criteria before any data qualification is required. All other surrogate recoveries met criteria.

Matrix Spike/Duplicate: MS/MSD analysis was performed on sample 10001. 1-Methylnaphthalene and 2-methylnaphthalene had 0% recoveries in the MS, but the sample results was >4x the spike added so no action is required. Seven compounds had high recoveries in the MSD. The associated lab control sample had acceptable recoveries for these compounds, indicating that the problem is likely due to a matrix interference. No data qualification is needed based on MS/MSD data alone. All other compounds met recovery and RPD criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All parameters met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria for all compounds.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with no qualifications

TPH-GRO

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. All samples met holding time criteria.

Initial Calibration: The 7/13/03 initial calibration met the percent RSD criteria of <20%.

Calibration Verification: All calibration verifications met the %D criteria of < 15%.

Blanks: No target compounds were detected in the method blank associated with these samples, or in field blank 11003.

Surrogates: All samples met surrogate recovery criteria.

Matrix Spike/Duplicate: MS/MSD analysis was performed on sample 10077. All recoveries and RPDs met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All duplicates met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control samples met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with no qualifications.

TPH-DRO & ORO

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days to extraction for aqueous samples (preserved or unpreserved), 14 days to extraction for soil samples, and 40 days from extraction to analysis for aqueous and soil samples. All samples met holding time criteria.

Initial Calibration: The 7/16/03 DRO and the 6/3/03 ORO initial calibrations met the percent RSD criteria (<20%).

Calibration Verification: All calibration verifications met the %D criteria of < 15%.

Blanks: No target compounds were detected in the method blank associated with these samples. Field blank 11003 contained 117 ug/l of TPH-DRO, but all sample results were non-detect or >5X the blank results so no data qualification was needed.

Surrogates: The surrogates were diluted out of samples 10001 and 10076, no data qualification was needed. All other samples met surrogate recovery criteria.

Matrix Spike/Duplicate: The matrix spike performed on a non-Pennzoil Quaker State sample. All recoveries and RPDs met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All three duplicates met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with no qualifications.

LEAD

Method: SW-846 Method 6010B

Holding Time: The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

Initial and Continuing Calibration Verification: All of the ICVs and CCVs met the 90-110% criteria.

Blanks: No metals were detected in the calibration or preparation blanks, or in field blank 11003.

ICP Interference Check: All target metals met the ICP interference check criteria of 80-120%.

Matrix spikes: Matrix spike analysis was performed on a non-Pennzoil Quaker State sample, and met the 75-125% recovery criteria.

Duplicates: Duplicate analysis was performed on a non-Pennzoil Quaker State sample, and met the RPD criteria of < 20%.

Field Duplicates: Three sets of field duplicates were analyzed. All three duplicates met the <50% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The LCS associated with these samples met the 80-120% recovery criteria.

Serial Dilution: Serial dilution analysis was performed on a non-Pennzoil Quaker State sample, and did not meet the < 10% D criteria. No data qualification was needed since the sample does represent Pennzoil Quaker State samples.

Raw Data Review: Raw data review could not be performed.

Summary: All of the metals results were acceptable as reported with no qualifications.

RELEASE OF VALIDATED DATA

Project: Pennzoil Quaker State #5117, Etowah Terminal
Date: October 31, 2003
Lab Job Number: 343366
Reviewer: Richard W. McCracken

Validation was performed on the volatile, ethylene glycol, TPH-GRO, TPH-DRO & ORO, and lead analytical results for 10% of the 45 groundwater samples collected at the Pennzoil Quaker State Etowah terminal in Charleston, West Virginia. Test America of Nashville, Tennessee analyzed the samples using SW-846 methods. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Organics – 9/94, and Inorganics - 4/93)*, as applied to SW-846 methodology. Level III data packages are required for the work being performed at Etowah. Level III data packages do not include raw data, therefore no raw data review could be performed. Samples chosen for validation included:

Field Sample ID	Lab Sample ID
20001	03-A127770
20004	03-A127771
20007s	03-A127752
20017	03-A127762
20029	03-A127767

The following QC parameters were reviewed:

SAMPLE RECEIPT

Preservatives: The sample coolers were received at 2 °C, within the criteria of 2-6 °C.

VOLATILE ORGANICS

Method: SW-846 Method 8260B

Holding Time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. All samples were preserved with hydrochloric acid and met holding times.

Tuning and Mass Calibration: All BFB tunes met ion abundance criteria. Each tune, except for the initial calibration, was followed by a calibration verification standard and method blank prior to sample analysis. The samples were analyzed within 12 hours of the BFB tuning

standard.

Initial Calibration: The 8/9/03 initial calibration from instrument HP-25 met the percent relative standard deviation (RSD) criteria of less than 30% for each of the Calibration Check Compounds (CCCs). (The CCCs are 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, toluene, and vinyl chloride.) All other target compounds met the RSD (< 15%) criteria. The 8/9 ICAL met the minimum mean relative response factor (RRF) criteria for the all of the System Performance Check Compounds (SPCCs) except bromoform. The SPCCs (and RRF criteria) are chloromethane (0.10), 1,1-dichloroethane (0.10), bromoform (0.10), chlorobenzene (0.30), and 1,1,2,2-tetrachloroethane (0.30). Bromoform (0.079) had a mean RRF below the 0.10 criteria, and all associated results have been qualified "J". All target compounds had RRFs > 0.05.

The 8/23/03 initial calibration from instrument HP-36 met the percent RSD criteria of less than 30% for each of the CCCs. All other target compounds met the RSD (< 15%) criteria. The ICAL also met the minimum mean RRF criteria for the SPCCs. All target compounds had RRFs > 0.05.

Calibration Verification: The HP-25 calibration verification performed on 8/20/03 @1348 met the SPCC criteria and the CCC<20% D criteria. In addition, all target compounds had %D < 20% and RRFs > 0.05.

The HP-25 calibration verification performed on 8/21/03 @1359 met the SPCC criteria and the CCC<20% D criteria. In addition, all target compounds had %D < 20% and RRFs > 0.05.

The HP-36 calibration verification performed on 8/27/03 @1106 met the SPCC criteria and the CCC<20% D criteria. In addition, all target compounds had %D < 20% and RRFs > 0.05.

Internal Standards: All samples met area and retention time criteria.

Blanks: No target compounds were detected in method blanks VBLK01 and VBLK02, or in trip blank TB-8.

Surrogates: All surrogate recoveries met criteria.

Matrix Spike/Duplicate: MS/MSD analyses were performed on 20001 and 20004. All recoveries and RPDs met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All parameters met the <35% RPD or ± 2x MDL (method detection limit) criteria.

Laboratory Control Sample: The laboratory control samples met recovery criteria for all compounds.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the volatile results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
20001, 20007s, 20017	All	J

ETHYLENE GLYCOL

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. The sample met holding time criteria.

Initial Calibration: The 8/7/03 initial calibration met the RSD criteria of <15%.

Calibration Verification: All ethylene glycol calibration verifications met the %D criteria of < 15%.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: Surrogate spike analysis was not performed. No data qualification is required.

Matrix Spike/Duplicate: The matrix spike performed on sample 20007s met recovery and RPD criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with no qualifications.

TPH-GRO

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days for unpreserved aqueous samples, 14 days for preserved aqueous samples, and 14 days for soil samples. All samples met holding time criteria.

Initial Calibration: The 6/6/03 initial calibration for instrument HP-42 met the percent RSD criteria of <20%. Likewise the 9/25/02 initial calibration for instrument HP-19 met the percent RSD criteria of <20%.

Calibration Verification: All calibration verifications met the %D criteria of < 15%.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: Sample 20017 had a high surrogate recovery, and the TPH-GRO result for this

sample has been qualified "J". All other samples met surrogate recovery criteria.

Matrix Spike/Duplicate: MS/MSD analyses were performed on 20001 and 20004. The recoveries and RPD met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All duplicates met the <35% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The laboratory control samples met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
20017	TPH-GRO	J

TPH-DRO & ORO

Method: SW-846 Method 8015B

Holding time: The holding time requirements are 7 days to extraction for aqueous samples (preserved or unpreserved), 14 days to extraction for soil samples, and 40 days from extraction to analysis for aqueous and soil samples. All samples met holding time criteria.

Initial Calibration: The 7/10/03 DRO initial calibration met the percent RSD criteria (<20%). The linear regression from the 4/22/03 ORO initial calibration data had a r^2 value of >0.98, indicating an acceptable cure fit.

Calibration Verification: All calibration verifications met the DRO %D criteria of < 15% and the ORO %D criteria of < 20%.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: All samples met surrogate recovery criteria.

Matrix Spike/Duplicate: MS/MSD analyses were performed on 20001 and 20004. The recoveries and RPD met criteria.

Field Duplicates: Three sets of field duplicates were analyzed. All ORO duplicates met the <35% RPD or ± 2x MDL criteria. Two sets of DRO duplicates met the <35% or ± 2x MDL criteria, while the third had a high RPD. All TPH-DRO results have been qualified "J".

Laboratory Control Sample: The laboratory control sample met recovery criteria.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with the following qualifications:

Sample	Compound	Qualifier
All	TPH-DRO	J

LEAD

Method: SW-846 Method 6010B

Holding Time: The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

Initial and Continuing Calibration Verification: All of the ICVs and CCVs met the 90-110% criteria.

Blanks: No lead was detected in the calibration or preparation blanks associated with these samples.

ICP Interference Check: All target metals met the ICP interference check criteria of 80-120%.

Matrix spikes: Matrix spike analyses were performed on 20001 and 20004, and met the 75-125% recovery criteria.

Duplicates: Duplicate analyses performed on 20001 and 20004 met the RPD criteria of < 20%.

Field Duplicates: Three sets of field duplicates were analyzed. All duplicates met the <35% RPD or ± 2x MDL criteria.

Laboratory Control Sample: The LCS associated with these samples met the 80-120% recovery criteria.

Serial Dilution: The serial dilution results met the < 10% D criteria.

Raw Data Review: Raw data review could not be performed.

Summary: All of the metals results were acceptable as reported with no qualifications.

RELEASE OF VALIDATED DATA

Project:	Pennzoil Quaker State #5117, Etowah Terminal
Date:	October 31, 2003
Lab Job Number:	347074
Reviewer:	Richard W. McCracken

Validation was performed on the polynuclear aromatic hydrocarbon (PAH) analytical results for 10% of the 11 groundwater samples collected at Pennzoil Quaker State's Etowah terminal in Charleston, West Virginia. Test America of Nashville, Tennessee analyzed the samples using SW-846 methods. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Organics – 9/94, and Inorganics - 4/93)*, as applied to SW-846 methodology. Level III data packages are required for the work being performed at Etowah. Level III data packages do not include raw data, therefore no raw data review could be performed. Samples chosen for validation included:

Field Sample ID	Lab Sample ID
20017	03-A144770

The following QC parameters were reviewed:

SAMPLE RECEIPT

Preservatives: The sample coolers were received at 2 °C, within the criteria of 2-6 °C.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method: SW-846 Method 8270C-SIM

Holding time: The holding time requirements are 7 days to extraction for aqueous samples (preserved or unpreserved), 14 days to extraction for soil samples, and 40 days from extraction to analysis for aqueous and soil samples. All samples met holding time criteria.

Tuning and Mass Calibration: All DFTPP tunes met ion abundance criteria. All samples were analyzed within 12 hours of the DFTPP tuning standard.

Initial Calibration: The 9/23/03 initial calibration performed on instrument O-HP38 included only the target compounds, which did not include all of the CCC or the SPCCs. Therefore, criteria used to evaluate all target compounds included percent RSDs <15% and RRFs > 0.05. Compounds with %RSD > 15% included benzo(a)pyrene (16.02%), indeno(1,2,3-cd)pyrene (20.52%), and dibenzo(a,h)anthracene (20.38%). The lab performed a linear regression for each of these compounds, and all compounds had r^2 values > 0.98 indicating an acceptable fit – no data qualification was required. All compounds had RRFs > 0.05.

Calibration Verification: The calibration verification performed on 9/26/03 @1641 for instrument O-HP38 met the <20% D criteria for the target compounds except benzo(b)fluoranthene (20.1%) and benzo(k)fluoranthene (29.8%). The only samples associated with this calibration verification are the MS and MSD, so no data qualification was needed. All target compounds had RRFs > 0.05.

The calibration verification performed on 9/28/03 @0435 for instrument O-HP38 met the <20% D and RRF > 0.05 criteria for the target compounds.

Internal Standards: All samples met area and retention time criteria.

Blanks: No target compounds were detected in the method blank associated with these samples.

Surrogates: Sample 20017 had a high recovery for nitrobenzene-d5 (959%), which the lab attributed to a matrix interference. Two surrogates must be outside criteria before any data qualification is required. All other surrogates met recovery criteria.

Matrix Spike/Duplicate: MS/MSD analysis was performed on laboratory sample 127770. All compounds met recovery and RPD criteria.

Field Duplicates: One set of field duplicates was analyzed. All parameters met the <35% RPD or ± 2x MDL (method detection limit) criteria.

Laboratory Control Sample: The laboratory control sample met recovery criteria for all compounds.

Target Compound Identification: Target compound identification could not be evaluated.

Raw Data Review: Raw data review could not be performed.

Summary: All of the results were acceptable as reported with no qualifications.

TABLE A
SOIL RELATIVE PERCENT DIFFERENCE RESULTS FOR VOC, LEAD AND TPH
Former PQS Etowah Terminal
1015 Barlow Drive
Charleston, West Virginia

Sample Identification			VOC Parameters					Lead	TPH		
Sample Location	Depth (Feet)	Date	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)
Table 60-3B - Industrial			15	6,000	2,000	4,500	800 (a)	1,000	6,600 (a)	8,300 (a)	9,000 (a)
SB-6	2 - 8	7/15/03	<0.0021	<0.0021	0.0013 J	<0.0021	<0.0021	17.2	<6.99	<6.99	<6.99
SB-6 FS	2 - 8	7/15/03	<0.0019	<0.0019	0.0013 J	<0.0019	<0.0019	14.3	<6.02	<6.02	<6.02
RPD %			ND	ND	ND	ND	ND	18.41	ND	ND	ND
TMW/SB-16	14 - 16	7/15/03	0.0015 J	0.0086	0.0063	0.0384	<0.0020	6.61	673.0	2,310	<564.0
TMW/SB-16 FS	14 - 16	7/15/03	0.0019 J	0.0145	0.0114	0.0278	<0.0020	6.74	592.0	2,020	<561
RPD %			ND	-51.08	-57.63	32.02	ND	-1.95	12.81	13.39	ND
SB-21	2 - 8	7/22/03	0.0043	<0.0018	0.0010 J	0.0015 J	<0.0018	11.9	<6.11	8.07	<6.19
SB-21 FS	2 - 8	7/22/03	0.0042	<0.0019	0.0010 J	0.0013 J	<0.0019	15.2	<6.39	9.72	<6.50
RPD %			2.35	ND	ND	ND	ND	-24.35	ND	-18.55	ND
NS-2	0 - 0.5	9/11/03	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	19.8	<7.66	<7.66	27.1
NS-2 FS	0 - 0.5	9/11/03	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	22.1	<7.73	<7.73	26.1
RPD %			ND	ND	ND	ND	ND	-10.98	ND	ND	3.76

VOC - volatile organic compounds
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
mg/kg - milligrams per kilogram
RPD - relative percent difference
Analytes not meeting the <50% PRD or plus or minus two times the method detection limit criteria are shaded.

NE - not established
NS - analyte was not analyzed
FS - field split
J - analyte below practical quantitation limit
< - less than the following laboratory method detection limit.
Table 60-3B De Minimis - De Minimus Levels from West Virginia De Minimis Levels for Soil and Groundwater (revised Jar
(a) - West Virginia Department of Environmental Protection Draft De Minimis Levles in Soil and Groundwater for TPH

TABLE B
SOIL RELATIVE PERCENT DIFFERENCE RESULTS FOR PAH
Former PQS Etowah Terminal
1015 Barlow Drive
Charleston, West Virginia

Sample Identification			PAH Parameters																	
Sample Location	Depth (Feet)	Date	Acenaph-thene (mg/kg)	Acenaph-thylene (mg/kg)	Anthra-cene (mg/kg)	Benzo(a) anthracene (mg/kg)	Benzo(a) pyrene (mg/kg)	Benzo(b)flu-oranthene (mg/kg)	Benzo(ghi) perylene (mg/kg)	Benzo(k)flu-oranthene (mg/kg)	Chry-sene (mg/kg)	Dibenz(ah)-anthracene (mg/kg)	Fluoro-anthene (mg/kg)	Fluorene (mg/kg)	Indeno(123-cd)pyrene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Naph-thalene (mg/kg)	Phenan-threne (mg/kg)	Pyrene (mg/kg)	1-Methyl naphthalene (mg/kg)
Table 60-3B - Industrial			38,000	NE	390,000	29	2.9	29	NE	290	2,900	2.9	30,000	33,000	29	NE	190	NE	54,000	NE
TMW/SB-16	14 - 16	7/15/03	<0.00372	<0.00372	0.0536	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	0.0198	<0.00372	<0.00372	0.267	<0.00372	<0.00372	<0.00372	0.274	0.0178	2.18
TMW/SB-16 FS	14 - 16	7/15/03	<0.00370	<0.00370	0.0555	<0.00370	<0.00370	<0.00370	<0.00370	<0.00370	0.0193	<0.00370	<0.00370	0.271	<0.00370	<0.00370	<0.00370	.279	0.0193	2.22
RPD %			ND	ND	-3.48	ND	ND	ND	ND	ND	2.56	ND	ND	-1.49	ND	ND	ND	-1.81	-8.09	-1.82
SB-21 FS	2 - 8	7/22/03	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403	<0.00403
SB-21 FS	2 - 8	7/22/03	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422
RPD %			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

PAH - polynuclear aromatic hydrocarbons
NE - not established
NS - analyte was not analyzed
FS - field split
RPD - relative percent difference
Analytes not meeting the <50% PRD or plus or minus two times the method detection limit criteria are shaded.

mg/kg - milligrams per kilogram
J - analyte below practical quantitation limit
< - less than the following laboratory method detection limit.
Table 60-3B De Minimis - De Minimus Levels from West Virginia De Minimis Levels for Soil and Groundwater (revised January, 2002)
(a) - West Virginia Department of Environmental Protection Draft De Minimis Levles in Soil and Groundwater for TPH

TABLE C
SOIL RELATIVE PERCENT DIFFERENCE RESULTS FOR SOLVENTS AND METALS
Former PQS Etowah Terminal
Barlow Drive
Charleston, West Virginia

Sample Identification			Metals				Solvents																
					Chromium																		
Sample Location	Depth (Feet)	Date	Cadmium (mg/kg)	Lead (mg/kg)	hexavalent (mg/kg)	trivalent (mg/kg)	Acetone (mg/kg)	2-Butanone (mg/kg)	Carbon disulfide (mg/kg)	Carbon tetrachloride (mg/kg)	Chlorobenzene (mg/kg)	1,2-Dichlorobenzene (mg/kg)	Isobutyl alcohol (mg/kg)	Methylene chloride (mg/kg)	Tetrachloroethene (mg/kg)	1,1,1-Trichloroethane (mg/kg)	1,1,2-Trichloroethane (mg/kg)	Trichloroethene (mg/kg)	Cyclohexanone (mg/kg)	Trichlorofluoromethane (mg/kg)	n-Butanol (mg/kg)	Methanol (mg/kg)	2-Ethoxyethanol (mg/kg)
Table 60-3B - Industrial			810	1,000	660	1,000,000	6,200	28,000.0	1,200.0	5.300	540	3,300	77,000.0	210.0	190.0	3,200	19.00	61.0	1,000,000	1,300	88,000	440,000	350,000
SB-6	0 - 2	7/15/03	<1.06	11.7	<2.24	18.1	0.04680	<0.0404	0.00460	<0.0016	<0.0016	<0.0016	<0.0112	0.0031 J	<0.0016	<0.0016	<0.0016	<0.0016	<0.00559	<0.0016	<0.00808	<11.2	<22.4
SB-6 FS	2 - 8	7/15/03	<1.16	14.3	<2.41	31.8	0.07970	<0.0473	<0.00189	<0.0019	<0.0019	<0.0019	<0.0120	0.0041 J	<0.0019	<0.0019	<0.0019	<0.0019	<0.00602	<0.0019	<0.00946	<12.0	<24.1
RPD %			ND	-20.00	ND	-54.91	-52.02	ND	83.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

mg/kg - milligrams per kilogram

J - analyte below practical quantitation limit

Table 60-3B De Minimis - De Minimus Levels from West Virginia De Minimis Levels for Soil and Groundwater (revised January, 2002)

RPD - relative percent difference

Analytes not meeting the <50% PRD or plus or minus two times the method detection limit criteria are shaded.

< - less than the following laboratory method detection limit.

NE - not established

NS - analyte was not analyzed

S - spike recovery outside accepted recovery limits

* - Resample for broken bottle for TPH DRO and ORO analyses collected on 8/27/02.

TABLE D
GROUNDWATER RELATIVE PERCENT DIFFERENCE RESULTS
Former PQS Etowah Terminal
1015 Barlow Drive
Charleston, West Virginia

Sample Identification		VOC Parameters					Metal	TPH			PAH Parameters																	
Sample Location	Date	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Dissolved Lead (mg/L)	GRO (mg/L)	DRO (mg/L)	ORO (mg/L)	Acenaph-thene (mg/L)	Acenaph-thylene (mg/L)	Anthra-cene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b)flu-oranthene (mg/L)	Benzo(ghi) perylene (mg/L)	Benzo(k)flu-oranthene (mg/L)	Chry-sene (mg/L)	Dibenz(ah)-anthracene (mg/L)	Fluoro-anthene (mg/L)	Fluorene (mg/L)	Indeno(123-cd)pyrene (mg/L)	2-Methyl Naphthalene (mg/L)	Naph-thalene (mg/L)	Phenan-threne (mg/L)	Pyrene (mg/L)	1-Methyl Naphthalene (mg/L)
Table 60-3B - De Minimis		0.005	1.300	1.000	10.000	0.020 (b)	0.015	1.500 (a)	0.330 (a)	0.610 (a)	0.370	NE	1.800	0.000091	0.0002	0.000091	NE	0.00091	0.0091	0.0000091	1.500	0.240	0.000091	NE	0.0062	NE	0.180	NE
SB-2/MW-5	8/15/03	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	<0.100	<0.100	0.121	Not analyzed for PAH Parameters																	
SB-2/MW-5 DUP	8/15/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.100	0.108	<0.100	Not analyzed for PAH Parameters																	
RPD %		ND	ND	ND	ND	ND	ND	ND	-7.69	19.00	Not analyzed for PAH Parameters																	
TMW/SB-22	8/15/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.877	2.04	<0.200	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00018	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00066
TMW/SB-22 DUP	8/15/03	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	0.822	3.70	<0.500	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00040
RPD %		ND	ND	ND	ND	ND	ND	6.47	-57.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.06
NS-4	9/11/03	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.100	<0.100	<0.100	Not analyzed for PAH Parameters																	
NS-4 DUP	9/11/03	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.100	<0.100	0.206	Not analyzed for PAH Parameters																	
RPD %		ND	ND	ND	ND	ND	ND	ND	ND	ND	Not analyzed for PAH Parameters																	

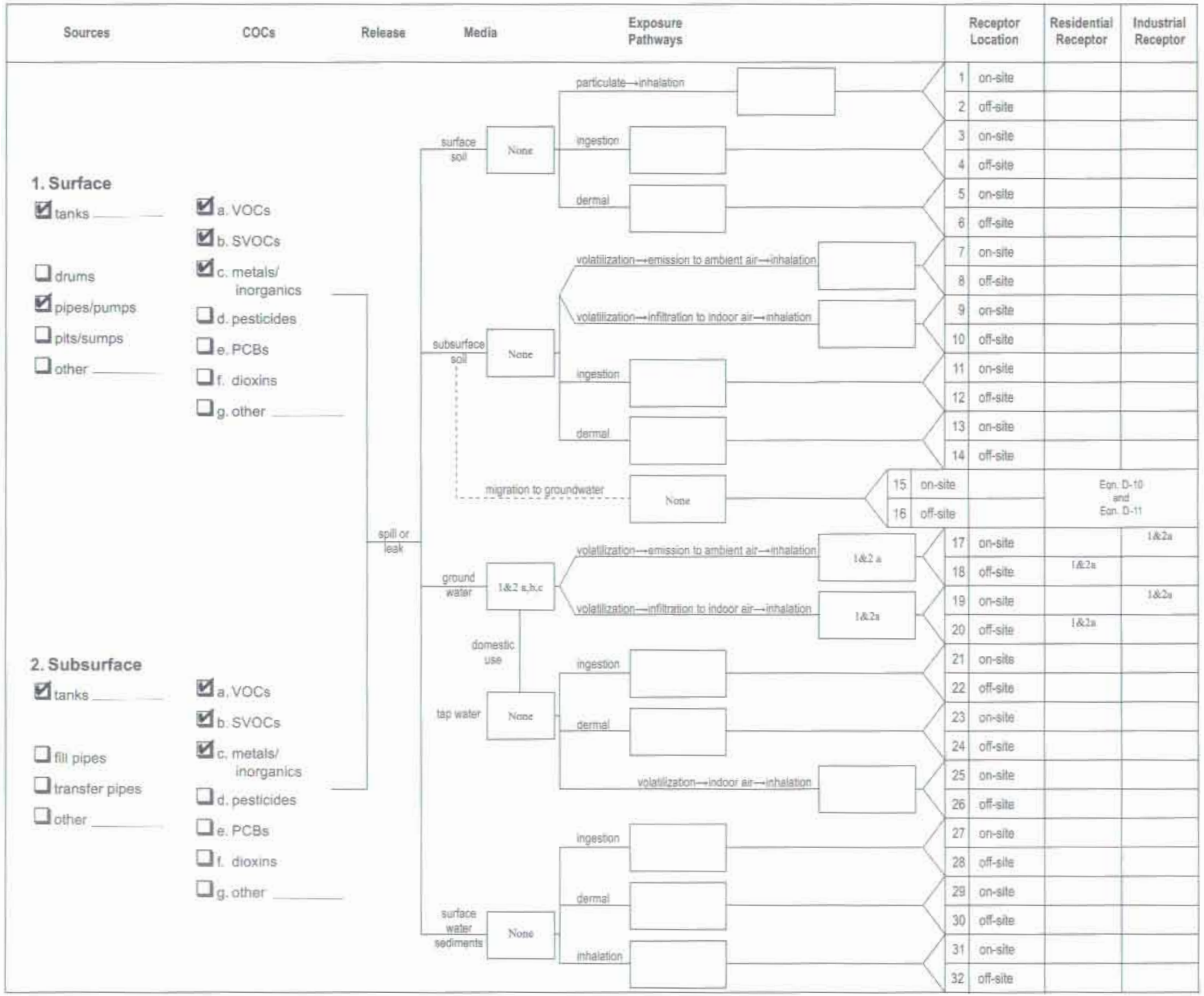
VOC - volatile organic compounds
PAH - polynuclear aromatic hydrocarbons
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
Table 60-3B De Minimis - De Minimus Levels from West Virginia De Minimis Levels for Soil and Groundwater (revised January, 2002)
(a) - West Virginia Department of Environmental Protection Draft De Minimis Levles in Soil and Groundwater for TPH
RPD - relative percent difference
Analytes not meeting the <35% RPD or plus or minus two times the method detection limit criteria are shaded.

< - less than the following laboratory method detection limit.
NE - not established
NS - analyte was not analyzed
Dup - Duplicate
mg/L - milligrams per liter
J - analyte below practical quantitation limit
S - spike recovery outside accepted recovery limits
* - Resample for broken bottle for TPH DRO and ORO analyses collected on 8/27/02

APPENDIX G

PRELIMINARY SITE CONCEPTUAL MODEL

Appendix G: Preliminary Conceptual Site Model - Former Pennzoil-Quaker State Etowah Terminal, Charleston, West Virginia.



DeMinimis Standard	Guidance Manual Equations		
	Uniform Standard		Site-Specific Standard
	Residential	Industrial	
	non-carcinogen Eqn. D-2 carcinogen Eqn. D-1	non-carcinogen Eqn. D-4 carcinogen Eqn. D-3	See User Guide Sec. 7.3.1.2
	non-carcinogen Eqn. D-2 carcinogen Eqn. D-1	non-carcinogen Eqn. D-4 carcinogen Eqn. D-3	Intake Eqn. H.1.3 Risk Eqn. GM Sec. 3.4.1.3
See Guidance Manual Appendix C-1			Intake Eqn. H.1.4 Risk Eqn. GM Sec. 3.4.1.3
	non-carcinogen Eqn. D-2 carcinogen Eqn. D-1	non-carcinogen Eqn. D-4 carcinogen Eqn. D-3	See User Guide Sec. 7.3.2.2
			See User Guide Sec. 7.3.2.2
	non-carcinogen Eqn. D-2 carcinogen Eqn. D-1	non-carcinogen Eqn. D-4 carcinogen Eqn. D-3	Intake Eqn. H.1.3 Risk Eqn. GM Sec. 3.4.1.3
			Intake Eqn. H.1.4 Risk Eqn. GM Sec. 3.4.1.3
			See User Guide Sec. 7.3.3.2a
			See User Guide Sec. 7.3.3.2a
	non-carcinogen Eqn. D-6 carcinogen Eqn. D-5		Intake Eqn. H.1.1 Risk Eqn. GM Sec. 3.4.1.3
See Guidance Manual Appendix C-1			Intake Eqn. H.1.2 Risk Eqn. GM Sec. 3.4.1.3
	non-carcinogen Eqn. D-6 carcinogen Eqn. D-5		See User Guide Sec. 7.3.3.2b

APPENDIX H

PRELIMINARY CHECKLIST TO DETERMINE THE APPLICABLE ECOLOGICAL STANDARD

APPENDIX C-2: CHECKLIST TO DETERMINE THE APPLICABLE ECOLOGICAL STANDARD

Step 1. Determine Whether a De Minimus Ecological Evaluation is Appropriate for Your Site

Check "yes" or "no" to each of the following questions:

1.1 Is there any portion of the site that is undeveloped (i.e., not under intensive landscape or agricultural control)?

☐ yes ☑ no

1.2. Are there any surface water bodies, vernal pools, or wetlands on or adjacent to the site?

☑ yes ☐ no

1.3. Are there any areas off-site, but situated down stream, down wind, or down gradient from the site that may be affected by site related stressors?

☐ yes ☑ no

1.4. Are there any projected land uses for the site that would result in undeveloped areas, surface water bodies, vernal pools, or wetlands.

☐ yes ☑ no

If all of the above questions were answered as "no", then no further ecological evaluation is required. File this completed form with the Final Report of the site. If a question is answered "yes,", then go to Step 2.

Step 2. Identify any Readily Apparent Harm

2.1 Have there been any incidents where wildlife has been adversely impacted by contaminants originating from the site?

☐ yes ☑ no

- If yes go to 2.2, if no, go to Step 3

2.2 Have the adverse impacts been eliminated?

☐ yes ☐ no

- If yes, briefly describe the action taken and continue with this checklist. If no, proceed directly to the determination of a Uniform or Site Specific Ecological Standard, as described in the guidance manual.

Step 3. Identification of Contamination Associated with Ecological Habitats.

3.1 Has the environmental medium (soil, water, sediment, biota) associated with the identified ecological habitat(s) been sampled and analyzed with regard to potential site-related contaminants of concern?

☑ yes ☐ no

If yes, proceed to 3.2; if no, proceed to Step 4.

3.2 Have any site specific contaminants been detected above background concentration?:

☐ yes ☐ no To be determined in risk assessment.

If no, no further ecological evaluation is required. File this completed form with the Final Report for the site. If yes, go to Step 4.

If environmental media is found to contain site-specific contaminants above background concentrations, and the area is projected to be used as ecological habitat, then the applicant must proceed to evaluate remediation options or develop site-specific ecological standards based on the area's projected use.

Step 4. Characterize the Potential Ecological Habitat

4.1 Describe the general land use in the immediate vicinity of the site.

☐ Urban ☐ Industrial/Commercial
☐ Rural/Agricultural ☐ Rural/Undeveloped
☐ Residential
☐ Other (Describe) _____

4.2 For all affected areas, that fulfill the descriptions in questions 1.1 or 1.2, answer the following and provide a site map identifying the potential ecological habitat.

4.2.1. Outline the following characteristics for potential terrestrial or wetland habitats.
Location: _____
Contiguous area: _____
General Topography: _____
Predominant vegetation species: _____
Primary soil type: _____

4.2.2. Outline the following characteristics for all potential fluvial habitats.
Location: _____
Typical width and depth: _____
Typical flow rate: _____
Typical gradient (m/km): _____
Type of river/creek bottom: _____
Types of aquatic vegetation present: _____
Topography of the riparian zone: _____
Predominant riparian vegetation: _____
Human utilization of the river/creek and riparian zone: _____
Local conditions _____

4.2.3. Outline the following characteristics for all potential lotic habitats.
Location: _____
Is the pond/lake natural or man-made: _____
Area of the pond/lake: _____
Typical and maximum depth: _____
Brief description of sources and drainage: _____
Predominant Aquatic vegetation: _____
Topography of the littoral zone: _____
Predominant vegetation in littoral zone: _____
Human utilization of the pond/lake and shoreline: _____
Local conditions _____

Step 5. Identify any Potential Ecological Receptors of Concern.

5.1 Have any of the following species been either identified at, or could be expected to be found at any of the potential ecological habitats listed in Step 4.

☐ yes ☐ no.

If yes, indicate which species:

☐ Bat, Indiana
☐ Bat, Virginia big-eared
☐ Clubshell
☐ Eagle, bald
☐ Falcon, American peregrine
☐ Fanshell
☐ Mussel, ring pink

☐ Pearlymussel, pink mucket
☐ Pearlymussel, tubercled-blossom
☐ Riffleshell, northern
☐ Salamander, Cheat Mountain
☐ Snail, flat-spired three-toothed
☐ Spinymussel, James River (Virginia)
☐ Squirrel, Virginia northern flying
☐ Harperella
☐ Northeastern (Barbed bristle) bulrush
☐ Running buffalo clover
☐ Shale barren rock-cress
☐ Virginia spiraea

[The above list contains federally threatened and endangered species that are indigenous to West Virginia. The list may have to be appended to include any species protected by state law.]

5.2 List any potential avian receptors that have been observed at, or could possibly be associated with any potential ecological habitat listed in Step 4.

Are any of the listed [receptors/species] considered ecological receptors of concern?

☐ yes ☐ no.

5.3 List any potential mammalian receptors that have been observed at, or could possibly be associated with any potential ecological habitat listed in Step 4.

Are any of the listed [receptors/species] considered ecological receptors of concern?

☐ yes ☐ no.

5.4 List any reptilian or amphibious species that have been observed at, or could possibly be associated with any potential ecological habitat listed in Step 4.

Are any of the listed [receptors/species] considered ecological receptors of concern?

☐ yes ☐ no.

5.5 List any aquatic species that have been observed at, or could possibly be associated with any potential ecological habitat listed in Step 4.

Are any of the listed [receptors/species] considered ecological receptors of concern?

☐ yes ☐ no.

If "no" is the response to Sec. 5.1 and for each section where some list is provided in Secs. 5.2 through 5.5, then the ecological evaluation is completed. File this completed form with the Final Report for the site.

If "yes" is the response in any of Secs. 5.1 through 5.5, then further evaluation of the site is required using either the Uniform Ecological Standard or the Site-Specific Ecological Standard. See Guidance Manual, Sec. 4.