



Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T23525

Sampling Date: 08/20/08

Report to:

Cordilleran Compliance Services

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ATTN: Brad Stephenson

Total number of pages in report: **56**



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

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Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
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Sample Summary

Cordilleran Compliance Services

Job No: T23525

Spindle Gas Plant

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T23525-1	08/20/08	10:15 BS	08/21/08	AQ	Ground Water	MW6
T23525-2	08/20/08	10:30 BS	08/21/08	AQ	Ground Water	MW7
T23525-3	08/20/08	09:45 BS	08/21/08	AQ	Ground Water	MW8
T23525-4	08/20/08	10:00 BS	08/21/08	AQ	Ground Water	MW9
T23525-5	08/20/08	10:45 BS	08/21/08	AQ	Ground Water	MW10
T23525-6	08/20/08	09:30 BS	08/21/08	AQ	Ground Water	MW39
T23525-7	08/20/08	09:55 BS	08/21/08	AQ	Ground Water	MW5
T23525-8	08/20/08	15:00 BS	08/21/08	AQ	Ground Water	MW18
T23525-9	08/20/08	13:00 BS	08/21/08	AQ	Ground Water	MW44
T23525-10	08/20/08	13:30 BS	08/21/08	AQ	Ground Water	MW32
T23525-11	08/20/08	09:25 BS	08/21/08	AQ	Ground Water	P1A
T23525-12	08/20/08	09:10 BS	08/21/08	AQ	Ground Water	P1B
T23525-13	08/20/08	09:40 BS	08/21/08	AQ	Ground Water	P2B



Sample Summary

(continued)

Cordilleran Compliance Services

Job No: T23525

Spindle Gas Plant

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T23525-14	08/20/08	10:30 BS	08/21/08	AQ	Ground Water	P3A
T23525-15	08/20/08	10:20 BS	08/21/08	AQ	Ground Water	P3B
T23525-16	08/20/08	11:05 BS	08/21/08	AQ	Ground Water	P4A
T23525-17	08/20/08	10:45 BS	08/21/08	AQ	Ground Water	P4B
T23525-18	08/20/08	13:15 BS	08/21/08	AQ	Ground Water	MW35
T23525-19	08/20/08	13:15 BS	08/21/08	AQ	Ground Water	MW35D
T23525-20	08/20/08	13:40 BS	08/21/08	AQ	Ground Water	MW38
T23525-21	08/20/08	14:45 BS	08/21/08	AQ	Ground Water	MW27
T23525-22	08/20/08	14:35 BS	08/21/08	AQ	Ground Water	MW29
T23525-23	08/20/08	14:20 BS	08/21/08	AQ	Ground Water	MW30
T23525-24	08/20/08	14:00 BS	08/21/08	AQ	Ground Water	MW31
T23525-26	08/20/08	14:10 BS	08/21/08	AQ	Ground Water	MW-37



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW6		
Lab Sample ID: T23525-1		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038524.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW7		
Lab Sample ID: T23525-2		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038525.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW8	
Lab Sample ID: T23525-3	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038526.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW9		
Lab Sample ID: T23525-4		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038527.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW10		
Lab Sample ID: T23525-5		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038550.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW39	
Lab Sample ID: T23525-6	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038551.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW5	
Lab Sample ID: T23525-7	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038598.D	1	08/28/08	AFL	n/a	n/a	F:GQQ1459
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.9	1.0	0.50	ug/l	
108-88-3	Toluene	1.5	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	83.8	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	79.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		70-120%
98-08-8	aaa-Trifluorotoluene	112%		73-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW18	
Lab Sample ID: T23525-8	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038555.D	10	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	730	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	189	10	5.0	ug/l	
1330-20-7	Xylenes (total)	935	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	106%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW44		
Lab Sample ID: T23525-9		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038547.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2 ^b	QQ038528.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1456

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.2	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	94%	73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

(b) Confirmation run. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW32	
Lab Sample ID: T23525-10	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038553.D	5	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	144	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
100-41-4	Ethylbenzene	75.4	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	668	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	119%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P1A	
Lab Sample ID: T23525-11	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086713.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	103%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P1B	
Lab Sample ID: T23525-12	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086714.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene ^b	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-120%
98-08-8	aaa-Trifluorotoluene	106%		73-118%

- (a) Sample was not preserved to a pH < 2. Confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.
- (b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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

Report of Analysis

Client Sample ID: P2B	
Lab Sample ID: T23525-13	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086715.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P3A	
Lab Sample ID: T23525-14	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086722.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-120%
98-08-8	aaa-Trifluorotoluene	103%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P3B	
Lab Sample ID: T23525-15	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086723.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P4A		
Lab Sample ID: T23525-16		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086724.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P4B		
Lab Sample ID: T23525-17		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086725.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW35	
Lab Sample ID: T23525-18	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086726.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	104%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW35D	
Lab Sample ID: T23525-19	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086729.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-120%
98-08-8	aaa-Trifluorotoluene	105%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW38		
Lab Sample ID: T23525-20		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086730.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	101%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW27	
Lab Sample ID: T23525-21	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086731.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW29		
Lab Sample ID: T23525-22		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086732.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW30		
Lab Sample ID: T23525-23		Date Sampled: 08/20/08
Matrix: AQ - Ground Water		Date Received: 08/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086733.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW31	
Lab Sample ID: T23525-24	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086734.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19.3	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.0	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	7.9	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-37	
Lab Sample ID: T23525-26	Date Sampled: 08/20/08
Matrix: AQ - Ground Water	Date Received: 08/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038688.D	1	09/02/08	AFL	n/a	n/a	F:GQQ1463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SAMPLE VERIFICATION

Accutest Job Number: T23525 Client: Cordillivan Project: Spindle
 Date/Time Received: 8-21-08 @ 9:10 AM # of Coolers Received: 1
 Cooler Temps: #1: 2.9 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 8058 9990 3554

COOLER INFORMATION

<input type="checkbox"/>	Custody seal missing or not intact
<input type="checkbox"/>	Chain of Custody not received
<input type="checkbox"/>	Temperature criteria not met
<input type="checkbox"/>	Wet ice received in cooler

CHAIN OF CUSTODY

<input type="checkbox"/>	Sample D/T unclear or missing
<input type="checkbox"/>	Analyses unclear or missing
<input type="checkbox"/>	COC not properly executed

SAMPLE INFORMATION

<input type="checkbox"/>	Sample containers rvd broken
<input type="checkbox"/>	VOC vials have headspace
<input type="checkbox"/>	Sample labels missing or illegible
<input type="checkbox"/>	ID on COC does not match label(s)
<input type="checkbox"/>	D/T on COC does not match label(s)
<input type="checkbox"/>	Bottles rvd but no analysis on COC
<input type="checkbox"/>	Bottles missing for requested analysis
<input type="checkbox"/>	Insufficient volume for analysis
<input type="checkbox"/>	Sample rvd improperly preserved

TRIP BLANK INFORMATION

<input type="checkbox"/>	Trip Blank on COC but not received
<input type="checkbox"/>	Trip Blank received but not on COC
<input type="checkbox"/>	Trip Blank not intact
<input type="checkbox"/>	Received Water Trip Blank
<input type="checkbox"/>	Received Sol. TB

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

Summary of Discrepancies: CLIENT SENT A SAMPLE "MW-37" THAT WAS NOT INDICATED ON THE COC.

TECHNICIAN SIGNATURE/DATE: Summit 8-21-08 VERIFIED BY: PA

CORRECTIVE ACTIONS

Client Representative Notified: Brad Stephenson Date: 8-22-08

By Accutest Representative: John N. Via: Phone Email: _____

Client Instructions: mentioned to Brad about MW-27 extra ex. Proceed w/ analysis, and make it ex # 2-b

SAMPLE RECEIPT LOG

JOB #: T23525 DATE/TIME RECEIVED: 8.21.08 @ 9:10 AM
 CLIENT: LOYDILIRAN INITIALS: SJK

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-6	8-20-08	W	40ml	1-3	VRIF	1,2,3,4,5,6 U, <2, >12 (NA)	
1	2	MW-7				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	3	MW 8				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	4	MW 9				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	5	MW 10				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	6	MW 39				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	7	MW 5				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	8	MW 18				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	9	MW 44				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	10	MW 32				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	11	P1				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	12	P1				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	13	P2				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	
1	14	P3						1,2,3,4,5,6 U, <2, >12 (NA)	
1	15	P3						1,2,3,4,5,6 U, <2, >12 (NA)	
1	16	P4						1,2,3,4,5,6 U, <2, >12 (NA)	
1	17	P4						1,2,3,4,5,6 U, <2, >12 (NA)	
1	18	MW 35						1,2,3,4,5,6 U, <2, >12 (NA)	
1	19	MW 35D						1,2,3,4,5,6 U, <2, >12 (NA)	
1	20	MW 38						1,2,3,4,5,6 U, <2, >12 (NA)	
1	21	MW 37						1,2,3,4,5,6 U, <2, >12 (NA)	
1	22	MW 39						1,2,3,4,5,6 U, <2, >12 (NA)	
1	23	MW 30						1,2,3,4,5,6 U, <2, >12 (NA)	
1	24	MW 31						1,2,3,4,5,6 U, <2, >12 (NA)	
1	25	TRIP Blank N/A				1-2		1,2,3,4,5,6 U, <2, >12 (NA)	
1	26	MW 31				1-3		1,2,3,4,5,6 U, <2, >12 (NA)	

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: Other
 LOCATION: 1: Walk-in #1 (Waters) 2: Walk-in #2 (Solis) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

SM 012 Rev.1.7/22/08

FedEx PRIORITY OVERNIGHT **THU**
Form 41280 02-03 21AUG08 Date of Ship
ID# 8658 9996 3554 LEVER 21AUG08
77036 IAH
XH JGQA



2.9



GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4952-MB	EF086689.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	100%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1456-MB	QQ038523.D 1		08/26/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.1	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	97%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4953-MB	EF086718.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	98%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1457-MB	QQ038541.D 1		08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	94%	70-120%
98-08-8	aaa-Trifluorotoluene	97%	73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1459-MB	QQ038597.D 1		08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	97%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1463-MB	QQ038687.D 1		09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-26

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	95%	70-120%
98-08-8	aaa-Trifluorotoluene	97%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4952-BS	EF086688.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.0	100	80-120
100-41-4	Ethylbenzene	20	19.6	98	79-121
108-88-3	Toluene	20	20.1	101	79-121
1330-20-7	Xylenes (total)	60	59.3	99	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

4.2
4

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1456-BS	QQ038522.D 1		08/26/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.6	98	80-120
100-41-4	Ethylbenzene	20	19.9	100	79-121
108-88-3	Toluene	20	19.6	98	79-121
1330-20-7	Xylenes (total)	60	60.1	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	97%	73-118%

4.2
4

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4953-BS	EF086717.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.5	103	80-120
100-41-4	Ethylbenzene	20	19.7	99	79-121
108-88-3	Toluene	20	20.3	102	79-121
1330-20-7	Xylenes (total)	60	59.7	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	70-120%
98-08-8	aaa-Trifluorotoluene	102%	73-118%

4.2
4

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1457-BS	QQ038540.D 1		08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.6	108	80-120
100-41-4	Ethylbenzene	20	20.8	104	79-121
108-88-3	Toluene	20	19.8	99	79-121
1330-20-7	Xylenes (total)	60	62.0	103	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	73-118%

4.2
4

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1459-BS	QQ038596.D 1		08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.1	106	80-120
100-41-4	Ethylbenzene	20	20.3	102	79-121
108-88-3	Toluene	20	19.3	97	79-121
1330-20-7	Xylenes (total)	60	60.3	101	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	73-118%

4.2
4

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1463-BS	QQ038686.D 1		09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.7	104	80-120
100-41-4	Ethylbenzene	20	20.1	101	79-121
108-88-3	Toluene	20	19.2	96	79-121
1330-20-7	Xylenes (total)	60	59.8	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

4.2
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59504-3MS	EF086696.D	1	08/26/08	CW	n/a	n/a	GEF4952
F59504-3MSD	EF086697.D	1	08/26/08	CW	n/a	n/a	GEF4952
F59504-3	EF086695.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	F59504-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	20.2	101	20.1	101	0	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	19.8	99	19.7	99	1	79-121/9
108-88-3	Toluene	1.0 U	20	20.2	101	20.3	102	0	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	60.0	100	59.5	99	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59504-3	Limits
460-00-4	4-Bromofluorobenzene	105%	109%	107%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	106%	104%	73-118%

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59504-14MS	EF086720.D	1	08/27/08	CW	n/a	n/a	GEF4953
F59504-14MSD	EF086721.D	1	08/27/08	CW	n/a	n/a	GEF4953
F59504-14	EF086719.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples: **Method:** SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	F59504-14 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	19.7	99	19.6	98	1	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	19.1	96	19.0	95	1	79-121/9
108-88-3	Toluene	1.0 U	20	19.7	99	19.6	98	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	57.8	96	57.5	96	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59504-14	Limits
460-00-4	4-Bromofluorobenzene	107%	105%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	103%	101%	98%	73-118%

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	T23525-9MS	QQ038529.D	1	08/27/08	TD	n/a	n/a	GQQ1456
(a)	T23525-9MSD	QQ038530.D	1	08/27/08	TD	n/a	n/a	GQQ1456
	T23525-9 ^b	QQ038528.D	1	08/27/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	T23525-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	18.7	94	18.4	92	2	80-120/10
100-41-4	Ethylbenzene	ND	20	18.2	91	18.0	90	1	79-121/9
108-88-3	Toluene	ND	20	18.4	92	18.2	91	1	79-121/10
1330-20-7	Xylenes (total)	1.2	J 60	55.1	90	54.6	89	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	T23525-9	Limits
460-00-4	4-Bromofluorobenzene	101%	98%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	94%	94%	73-118%

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

(b) Confirmation run.

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59604-2MS	QQ038568.D 1		08/27/08	TD	n/a	n/a	GQQ1457
F59604-2MSD	QQ038569.D 1		08/28/08	TD	n/a	n/a	GQQ1457
F59604-2	QQ038567.D 1		08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	F59604-2 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	21.9	110	21.9	110	0	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	21.2	106	21.1	106	0	79-121/9
108-88-3	Toluene	1.0 U	20	20.2	101	20.0	100	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	63.2	105	62.5	104	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59604-2	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	97%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	101%	98%	73-118%

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23538-7MS	QQ038622.D 1		08/28/08	TD	n/a	n/a	GQQ1459
T23538-7MSD	QQ038623.D 1		08/28/08	TD	n/a	n/a	GQQ1459
T23538-7	QQ038621.D 1		08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-7

CAS No.	Compound	T23538-7 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	20.6	103	20.7	104	0	80-120/10
100-41-4	Ethylbenzene	ND	20	19.7	99	19.9	100	1	79-121/9
108-88-3	Toluene	ND	20	18.8	94	18.9	95	1	79-121/10
1330-20-7	Xylenes (total)	ND	60	58.5	98	58.9	98	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	T23538-7	Limits
460-00-4	4-Bromofluorobenzene	95%	97%	90%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	100%	97%	73-118%

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59732-4MS	QQ038699.D 1		09/02/08	TD	n/a	n/a	GQQ1463
F59732-4MSD	QQ038700.D 1		09/02/08	TD	n/a	n/a	GQQ1463
F59732-4 ^a	QQ038698.D 1		09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples:

Method: SW846 8021B

T23525-26

CAS No.	Compound	F59732-4 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	22.2	111	22.0	110	1	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	21.1	106	21.0	105	0	79-121/9
108-88-3	Toluene	1.0 U	20	20.0	100	19.8	99	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	63.9	107	63.0	105	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59732-4	Limits
460-00-4	4-Bromofluorobenzene	100%	103%	98%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	100%	98%	73-118%

(a) All hits confirmed by dual column analysis.

4.3
4



Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

04032-2 PO# DCP

Accutest Job Number: T24667

Sampling Date: 11/12/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

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



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

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services

Job No: T24667

Spindle Gas Plant

Project No: 04032-2 PO# DCP

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T24667-1	11/12/08	11:10 JM	11/13/08	AQ	Ground Water	P4B
T24667-2	11/12/08	11:30 JM	11/13/08	AQ	Ground Water	P4A
T24667-3	11/12/08	11:50 JM	11/13/08	AQ	Ground Water	P3B
T24667-4	11/12/08	12:10 JM	11/13/08	AQ	Ground Water	P3A
T24667-5	11/12/08	12:30 JM	11/13/08	AQ	Ground Water	P2B
T24667-6	11/12/08	12:50 JM	11/13/08	AQ	Ground Water	MW-5
T24667-7	11/12/08	13:10 JM	11/13/08	AQ	Ground Water	P1B
T24667-8	11/12/08	13:30 JM	11/13/08	AQ	Ground Water	P1A
T24667-9	11/12/08	13:45 JM	11/13/08	AQ	Ground Water	MW-39
T24667-10	11/12/08	14:05 JM	11/13/08	AQ	Ground Water	MW-8
T24667-11	11/12/08	14:25 JM	11/13/08	AQ	Ground Water	MW-9
T24667-12	11/12/08	14:45 JM	11/13/08	AQ	Ground Water	MW-10



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: P4B	
Lab Sample ID: T24667-1	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027926.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.3	1.0	0.21	ug/l	
108-88-3	Toluene ^a	5.9	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	6.1	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	7.9	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	121%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P4A		
Lab Sample ID: T24667-2		Date Sampled: 11/12/08
Matrix: AQ - Ground Water		Date Received: 11/13/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027927.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.2	1.0	0.21	ug/l	
108-88-3	Toluene ^a	5.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene ^a	1.8	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	7.0	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	125%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P3B	
Lab Sample ID: T24667-3	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027928.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	97%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P3A	
Lab Sample ID: T24667-4	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027933.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P2B	
Lab Sample ID: T24667-5	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027934.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.0	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	5.5	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-5		
Lab Sample ID: T24667-6		Date Sampled: 11/12/08
Matrix: AQ - Ground Water		Date Received: 11/13/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027998.D	5	11/19/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	24.3	5.0	1.0	ug/l	
108-88-3	Toluene ^a	66.9	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	164	5.0	1.7	ug/l	
1330-20-7	Xylenes (total)	206	10	2.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	108%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P1B	
Lab Sample ID: T24667-7	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027935.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	2.8	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	3.4	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	138%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: P1A	
Lab Sample ID: T24667-8	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027936.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	0.29	1.0	0.23	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-39	Date Sampled: 11/12/08
Lab Sample ID: T24667-9	Date Received: 11/13/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027947.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-8		
Lab Sample ID: T24667-10		Date Sampled: 11/12/08
Matrix: AQ - Ground Water		Date Received: 11/13/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027937.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	102%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-9		
Lab Sample ID: T24667-11		Date Sampled: 11/12/08
Matrix: AQ - Ground Water		Date Received: 11/13/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027946.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	98%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-10	
Lab Sample ID: T24667-12	Date Sampled: 11/12/08
Matrix: AQ - Ground Water	Date Received: 11/13/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027948.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

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

FED-EX Tracking # 8670 4797 8219	Bottle Order Control #
Accutest Quote #	Accutest Job # 724667

Client / Reporting Information		Project Information		Requested Analysis										Matrix Codes										
Company Name Cordillera Compliance Services		Project Name Spindle												DW - Drinking Water										
Address 4690 Table Mountain Dr Ste 200		Street												GW - Ground Water										
City Golden		State CO		Zip 80403		City		State												WW - Water				
Project Contact Brad Stephenson		E-mail bradstephenson@cordcomp.com		Project # 04032-2												SW - Surface Water								
Phone # (303) 941-6156		Fax #		Client Purchase Order # DCP												SO - Soil								
Sampler's Name Jason Martin		Collection												SL - Sludge										
Field ID / Point of Collection		SUMMA #		Date		Time		Sampled By		Matrix		# of bottles												OI - Oil
MECH Val #		MECH Val #		Date		Time		Sampled By		Matrix		# of bottles												LIQ - Other Liquid
11		MW-9		11/12/08		1425		JM		GW		3												AIR - Air
12		MW-10		11/17/08		1445		JM		GW		3												SOL - Other Solid
																								WP - Wipe
																								LAB USE ONLY

BTEX by 80216

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> TRRP13 Commercial "A" = Results Only		<input type="checkbox"/> EDD Format	

Sample Custody must be documented below each time samples change possession, including courier delivery					
Relinquished by Sampler 1 Jason Martin	Date Time 11/12/08 1445	Received by 1 FEDEX	Relinquished by 2	Date Time 2	Received by 2
Relinquished by 3	Date Time 3	Received by 3	Relinquished by 4	Date Time 4	Received by 4
Relinquished by 5	Date Time 11.13.08	Received by 5 [Signature]	Custody Seal #	Preserved where applicable <input type="checkbox"/>	On Ice <input type="checkbox"/>
			Cooler Temp. 11		

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SAMPLE INSPECTION FORM

Accutest Job Number: T24667 Client: COEDILLERON COMPLIANCE Project: SPINDLE
Date/Time Received: 11.13.08 0900 # of Coolers Received: 1 Thermometer # 110
Cooler Temps: #1: 1.1 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
Airbill Numbers: 867047978219

- COOLER INFORMATION**
- Custody seal missing or not intact
 - Temperature criteria not met
 - Wet ice received in cooler

- CHAIN OF CUSTODY**
- Chain of Custody not received
 - Sample D/T unclear or missing
 - Analyses unclear or missing
 - COC not properly executed

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

- TRIP BLANK INFORMATION**
- Trip Blank on COC but not received
 - Trip Blank received but not on COC
 - Trip Blank not intact
 - Received Water Trip Blank
 - Received Soil TB

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

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: D. Bord 11.12.08

INFORMATION AND SAMPLE LABELING VERIFIED BY: V. A. A.

CORRECTIVE ACTIONS

Client Representative Notified: _____ Date: _____
By Accutest Representative: _____ Via: Phone Email
Client Instructions: _____

SAMPLE RECEIPT LOG

JOB #: T24667 DATE/TIME RECEIVED: 11.13.08 0900
 CLIENT: CORDELLERAN COMPLIANCE INITIALS: DB

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
	1	P4B	11.12 1110	W	40mL	1-3	VR	6 2 3 4 5 6 7 8	<2 >12
	2	P4A	1130					0 2 3 4 5 6 7 8	<2 >12
	3	P3B	1150					0 2 3 4 5 6 7 8	<2 >12
	4	P3A	1210					0 2 3 4 5 6 7 8	<2 >12
	5	P2B	1230					0 2 3 4 5 6 7 8	<2 >12
	6	MW-5	1250					0 2 3 4 5 6 7 8	<2 >12
	7	P1B	1310					0 2 3 4 5 6 7 8	<2 >12
	8	P1A	1330					0 2 3 4 5 6 7 8	<2 >12
	9	MW-39	1345					0 2 3 4 5 6 7 8	<2 >12
	10	MW-8	1405					0 2 3 4 5 6 7 8	<2 >12
	11	MW-9	1425					0 2 3 4 5 6 7 8	<2 >12
	12	MW-10	1445					0 2 3 4 5 6 7 8	<2 >12
	13	TRIP BLANK (WATER)		DI		1,2		1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12
<i>DB</i> 11.13.08								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other
 LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1380-MB	KK027922.D	1	11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	89%	58-125%
98-08-8	aaa-Trifluorotoluene	104%	73-139%

Method Blank Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027958.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	87%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	73-139%

Method Blank Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027986.D 1		11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1380-BS	KK027918.D 1		11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	86-121
100-41-4	Ethylbenzene	20	20.5	103	81-116
108-88-3	Toluene	20	20.1	101	87-117
1330-20-7	Xylenes (total)	60	61.8	103	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	58-125%
98-08-8	aaa-Trifluorotoluene	109%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027955.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.6	93	81-116
108-88-3	Toluene	20	18.4	92	87-117
1330-20-7	Xylenes (total)	60	56.4	94	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027983.D 1		11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.6	88	86-121
100-41-4	Ethylbenzene	20	19.1	96	81-116
108-88-3	Toluene	20	18.5	93	87-117
1330-20-7	Xylenes (total)	60	57.6	96	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

4.2
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24663-1MS	KK027942.D 1		11/18/08	FI	n/a	n/a	GKK1380
T24663-1MSD	KK027943.D 1		11/18/08	FI	n/a	n/a	GKK1380
T24663-1	KK027923.D 1		11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	T24663-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.3	20	22.6	107	23.3	110	3	86-121/19
100-41-4	Ethylbenzene	1.0 U	20	24.2	121* a	24.7	124* a	2	81-116/14
108-88-3	Toluene	1.0 U	20	23.4	117	23.8	119* a	2	87-117/16
1330-20-7	Xylenes (total)	2.0 U	60	72.2	120* a	73.4	122* a	2	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24663-1	Limits
460-00-4	4-Bromofluorobenzene	89%	91%	90%	58-125%
98-08-8	aaa-Trifluorotoluene	100%	104%	110%	73-139%

(a) Outside control limits, biased high.

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24675-1MS	KK027979.D 1		11/18/08	FI	n/a	n/a	GKK1381
T24675-1MSD	KK027980.D 1		11/18/08	FI	n/a	n/a	GKK1381
T24675-1	KK027959.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-6

CAS No.	Compound	T24675-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	12.9	65* a	10.8	54* a	18	86-121/19
100-41-4	Ethylbenzene	ND	20	20.8	104	19.2	96	8	81-116/14
108-88-3	Toluene	ND	20	15.1	76* a	13.0	65* a	15	87-117/16
1330-20-7	Xylenes (total)	ND	60	61.5	103	56.4	94	9	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24675-1	Limits
460-00-4	4-Bromofluorobenzene	85%	82%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	93%	100%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.



Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T24675

Sampling Date: 11/13/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

Total number of pages in report: **37**



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

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services

Job No: T24675

Spindle Gas Plant

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T24675-1	11/13/08	09:30 JM	11/14/08	AQ	Ground Water	MW-6
T24675-2	11/13/08	09:50 JM	11/14/08	AQ	Ground Water	MW-7
T24675-3	11/13/08	10:10 JM	11/14/08	AQ	Ground Water	MW-18
T24675-4	11/13/08	10:30 JM	11/14/08	AQ	Ground Water	MW-27
T24675-5	11/13/08	10:50 JM	11/14/08	AQ	Ground Water	MW-25
T24675-6	11/13/08	11:10 JM	11/14/08	AQ	Ground Water	MW-44
T24675-7	11/13/08	11:30 JM	11/14/08	AQ	Ground Water	MW-35
T24675-8	11/13/08	11:30 JM	11/14/08	AQ	Ground Water	MW-35D
T24675-9	11/13/08	11:50 JM	11/14/08	AQ	Ground Water	MW-32
T24675-10	11/13/08	12:10 JM	11/14/08	AQ	Ground Water	MW-31
T24675-11	11/13/08	12:10 JM	11/14/08	AQ	Ground Water	MW-38
T24675-12	11/13/08	12:30 JM	11/14/08	AQ	Ground Water	MW-37
T24675-13	11/13/08	12:50 JM	11/14/08	AQ	Ground Water	MW-30



Sample Summary (continued)

Cordilleran Compliance Services

Job No: T24675

Spindle Gas Plant

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T24675-14	11/13/08	13:30 JM	11/14/08	AQ	Ground Water	MW-28
T24675-15	11/13/08	13:50 JM	11/14/08	AQ	Ground Water	MW-15
T24675-16	11/13/08	14:10 JM	11/14/08	AQ	Ground Water	MW-14



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-6	Date Sampled: 11/13/08
Lab Sample ID: T24675-1	Date Received: 11/14/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027959.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	100%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-7		
Lab Sample ID: T24675-2		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027960.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	98%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-18	Date Sampled: 11/13/08
Lab Sample ID: T24675-3	Date Received: 11/14/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027976.D	5	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	641	5.0	1.0	ug/l	
108-88-3	Toluene ^a	12.5	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	342	5.0	1.7	ug/l	
1330-20-7	Xylenes (total)	816	10	2.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	108%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-27		
Lab Sample ID: T24675-4		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027961.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-25		
Lab Sample ID: T24675-5		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027962.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2	KK028049.D	25	11/20/08	FI	n/a	n/a	GKK1382

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	63.3	1.0	0.21	ug/l	
108-88-3	Toluene ^a	24.9	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	40.8	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	884 ^b	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	122%	81%	58-125%
460-00-4	4-Bromofluorobenzene		84%	58-125%
98-08-8	aaa-Trifluorotoluene	111%	93%	73-139%
98-08-8	aaa-Trifluorotoluene		104%	73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44		
Lab Sample ID: T24675-6		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028013.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-35	
Lab Sample ID: T24675-7	Date Sampled: 11/13/08
Matrix: AQ - Ground Water	Date Received: 11/14/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028014.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	1.1	2.0	0.55	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		58-125%
98-08-8	aaa-Trifluorotoluene	99%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-35D	
Lab Sample ID: T24675-8	Date Sampled: 11/13/08
Matrix: AQ - Ground Water	Date Received: 11/14/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028015.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	94%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-32		
Lab Sample ID: T24675-9		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027978.D	10	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	263	10	2.1	ug/l	
108-88-3	Toluene ^a	28.4	10	2.3	ug/l	
100-41-4	Ethylbenzene	149	10	3.5	ug/l	
1330-20-7	Xylenes (total)	927	20	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	106%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-31		
Lab Sample ID: T24675-10		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027965.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	1.0	0.21	ug/l	
108-88-3	Toluene	13.3	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	14.4	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	26.8	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		58-125%
98-08-8	aaa-Trifluorotoluene	97%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-38		
Lab Sample ID: T24675-11		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028016.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene ^a	2.4	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	1.5	1.0	0.35	ug/l	
1330-20-7	Xylenes (total) ^a	2.3	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		58-125%
98-08-8	aaa-Trifluorotoluene	93%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-37	Date Sampled: 11/13/08
Lab Sample ID: T24675-12	Date Received: 11/14/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027969.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-30	
Lab Sample ID: T24675-13	Date Sampled: 11/13/08
Matrix: AQ - Ground Water	Date Received: 11/14/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027970.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	92%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-28		
Lab Sample ID: T24675-14		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027971.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	94%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-15	
Lab Sample ID: T24675-15	Date Sampled: 11/13/08
Matrix: AQ - Ground Water	Date Received: 11/14/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027972.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	0.85	1.0	0.21	ug/l	J
108-88-3	Toluene	1.3	1.0	0.23	ug/l	
100-41-4	Ethylbenzene ^a	0.42	1.0	0.35	ug/l	J
1330-20-7	Xylenes (total)	2.1	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-14		
Lab Sample ID: T24675-16		Date Sampled: 11/13/08
Matrix: AQ - Ground Water		Date Received: 11/14/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027973.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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

FED-EX Tracking # 51704797880 Bottle Order Control #
 Accutest Quote # _____ Accutest Job # 724675

Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes												
Company Name <u>Cardilleran Compliance Services, Inc.</u>		Project Name <u>SPINDLE</u>														DW - Drinking Water												
Address <u>4690 Table Mountain Dr Ste 200</u>		Street														GW - Ground Water												
City <u>Golden</u> State <u>CO</u> Zip <u>80403</u>		City State														WW - Water												
Project Contact <u>BRAD STEPHENSON@COLOCOMP.COM</u> E-mail		Project # <u>04032-2</u>														SW - Surface Water												
Phone # <u>303 941-6156</u>		Fax #														SO - Soil												
Sampler's Name <u>J MARTIN</u>		Client Purchase Order # <u>DCP</u>														SL - Sludge												
Field ID / Point of Collection		SUMMA #														OI - Oil												
Accutest Sample #	MECH Val #	Collection		Number of preserved Bottles												LIQ - Other Liquid												
		Date	Time	Sampled By	Matrix	# of bottles	FE	NI	NO	NR	NS	NT	NU	NV	NI	NO	NR	NS	NT	NU	NI	NO	NR	NS	NT	NU	LAB USE ONLY	
1	MW-6	11/3/08	0930		GW	3																						
2	MW-7		0950			3																						
3	MW-18		1010			3																						
4	MW-27		1030			3																						
5	MW-25		1050			3																						
6	MW-44		1110			3																						
7	MW-35		1130			3																						
8	MW-35D		1130			3																						
9	MW-32		1150			3																						
10	MW-31	11/3/08	1210		GW	3																						

BREV BY 80216

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks
<input checked="" type="checkbox"/> 10 Day STANDARD	Approved By / Date: _____	<input type="checkbox"/> Commercial "A"	<input type="checkbox"/> EDD Format _____	
<input type="checkbox"/> 5 Day RUSH	_____	<input type="checkbox"/> Commercial "B"		
<input type="checkbox"/> 3 Day EMERGENCY	_____	<input type="checkbox"/> Reduced Tier 1		
<input type="checkbox"/> 2 Day EMERGENCY	_____	<input type="checkbox"/> Full Tier 1		
<input type="checkbox"/> 1 Day EMERGENCY	_____	<input type="checkbox"/> TRRP13		
<input type="checkbox"/> Other	_____	Commercial "A" = Results Only		

Emergency & Rush T/A data available VIA LabLink

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

Relinquished by	Date Time	Received by	Relinquished by	Date Time	Received by
<u>[Signature]</u>	<u>11/3/08 1530</u>	<u>TO FEDEX</u>			

Relinquished by: _____ Date Time: 11-14-08 Received by: [Signature]

Custody Seal # _____ Preserved where applicable On Ice Cooler Temp. 3.1

0900

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SAMPLE INSPECTION FORM

Accutest Job Number: T24675 Client: CORDILLERAN COMPLIANCE SERVICES Project: Spindle
 Date/Time Received: 11.14.08 0900 # of Coolers Received: 1 Thermometer # 121
 Cooler Temps: #1: 3.1 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 867047978420

COOLER INFORMATION

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

CHAIN OF CUSTODY

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

SAMPLE INFORMATION

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

TRIP BLANK INFORMATION

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

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

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [Signature] 11.14.08
 INFORMATION AND SAMPLE LABELING VERIFIED BY: [Signature]

♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ **CORRECTIVE ACTIONS** ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦

Client Representative Notified: _____ Date: _____
 By Accutest Representative: _____ Via: Phone Email
 Client Instructions: _____

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3

SAMPLE RECEIPT LOG

JOB #: T24675 DATE/TIME RECEIVED: 11.14.08 0900

CLIENT: CORDIERA compliance services INITIALS: IT

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV				PH	
								1	2	3	4		
1	1	MW-6	11-13-08 0930	GW	40mL	1-3	VR	1	2	3	4	<2	>12
	2	MW-7	11-13-08 0950					1	2	3	4	<2	>12
	3	MW-18	11-13-08 1010					1	2	3	4	<2	>12
	4	MW-27	11-13-08 1030					1	2	3	4	<2	>12
	5	MW-25	11-13-08 1050					1	2	3	4	<2	>12
	6	MW-44	11-13-08 1110					1	2	3	4	<2	>12
	7	MW-35	11-13-08 1130					1	2	3	4	<2	>12
	8	MW-35D	↓					1	2	3	4	<2	>12
	9	MW-32	11-13-08 1150					1	2	3	4	<2	>12
	10	MW-31	11-13-08 1210					1	2	3	4	<2	>12
	11	MW-38	↓					1	2	3	4	<2	>12
	12	MW-37	11-13-08 1230					1	2	3	4	<2	>12
	13	MW-30	11-13-08 1250					1	2	3	4	<2	>12
	14	MW-28	11-13-08 1330					1	2	3	4	<2	>12
	15	MW-15	11-13-08 1350					1	2	3	4	<2	>12
	16	MW-14	11-13-08 1410					1	2	3	4	<2	>12
								1	2	3	4	<2	>12
		IT 11.14.08						1	2	3	4	<2	>12
								1	2	3	4	<2	>12
								1	2	3	4	<2	>12
								1	2	3	4	<2	>12
								1	2	3	4	<2	>12
								1	2	3	4	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other
 LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridges M: Metals SUB: Subcontract EF: Encore Freezer

31
3



GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027958.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	87%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	73-139%

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027986.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-MB	KK028012.D 1		11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-MB	KK028037.D	1	11/20/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	92%	73-139%

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027955.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.6	93	81-116
108-88-3	Toluene	20	18.4	92	87-117
1330-20-7	Xylenes (total)	60	56.4	94	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027983.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.6	88	86-121
100-41-4	Ethylbenzene	20	19.1	96	81-116
108-88-3	Toluene	20	18.5	93	87-117
1330-20-7	Xylenes (total)	60	57.6	96	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-BS	KK028009.D	1	11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.8	94	86-121
100-41-4	Ethylbenzene	20	20.5	103	81-116
108-88-3	Toluene	20	20.1	101	87-117
1330-20-7	Xylenes (total)	60	61.8	103	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	82%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-BS	KK028034.D 1		11/20/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.3	92	81-116
108-88-3	Toluene	20	17.6	88	87-117
1330-20-7	Xylenes (total)	60	55.3	92	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	82%	58-125%
460-00-4	4-Bromofluorobenzene	84%	58-125%
98-08-8	aaa-Trifluorotoluene	89%	73-139%
98-08-8	aaa-Trifluorotoluene	96%	73-139%

4.2
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24675-1MS	KK027979.D 1		11/18/08	FI	n/a	n/a	GKK1381
T24675-1MSD	KK027980.D 1		11/18/08	FI	n/a	n/a	GKK1381
T24675-1	KK027959.D 1		11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: **Method:** SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	T24675-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	12.9	65* a	10.8	54* a	18	86-121/19
100-41-4	Ethylbenzene	ND	20	20.8	104	19.2	96	8	81-116/14
108-88-3	Toluene	ND	20	15.1	76* a	13.0	65* a	15	87-117/16
1330-20-7	Xylenes (total)	ND	60	61.5	103	56.4	94	9	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24675-1	Limits
460-00-4	4-Bromofluorobenzene	85%	82%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	93%	100%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24692-1MS	KK028031.D 1		11/20/08	FI	n/a	n/a	GKK1382
T24692-1MSD	KK028032.D 1		11/20/08	FI	n/a	n/a	GKK1382
T24692-1	KK028017.D 1		11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	T24692-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	18.0	90	18.0	90	0	86-121/19
100-41-4	Ethylbenzene	1.0 U	20	19.9	100	20.1	101	1	81-116/14
108-88-3	Toluene	1.0 U	20	19.1	96	19.4	97	2	87-117/16
1330-20-7	Xylenes (total)	2.0 U	60	59.3	99	60.0	100	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24692-1	Limits
460-00-4	4-Bromofluorobenzene	83%	84%	85%	58-125%
460-00-4	4-Bromofluorobenzene	85%	87%		58-125%
98-08-8	aaa-Trifluorotoluene	95%	97%	95%	73-139%
98-08-8	aaa-Trifluorotoluene	97%	100%		73-139%

4.3
4



Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T24755

Sampling Date: 11/20/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

Total number of pages in report: **32**



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

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services

Job No: T24755

Spindle Gas Plant

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T24755-1	11/20/08	08:40 JM	11/21/08	AQ	Ground Water	MW-1
T24755-2	11/20/08	09:00 JM	11/21/08	AQ	Ground Water	MW-2
T24755-3	11/20/08	09:20 JM	11/21/08	AQ	Ground Water	MW-3
T24755-4	11/20/08	09:40 JM	11/21/08	AQ	Ground Water	MW-4
T24755-5	11/20/08	10:00 JM	11/21/08	AQ	Ground Water	MW-34
T24755-6	11/20/08	10:20 JM	11/21/08	AQ	Ground Water	MW-33
T24755-7	11/20/08	10:40 JM	11/21/08	AQ	Ground Water	MW-17
T24755-8	11/20/08	10:40 JM	11/21/08	AQ	Ground Water	MW-17D
T24755-9	11/20/08	11:00 JM	11/21/08	AQ	Ground Water	MW-24
T24755-10	11/20/08	11:20 JM	11/21/08	AQ	Ground Water	MW-22
T24755-11	11/20/08	11:40 JM	11/21/08	AQ	Ground Water	MW-36
T24755-12	11/20/08	12:00 JM	11/21/08	AQ	Ground Water	MW-21



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1	
Lab Sample ID: T24755-1	Date Sampled: 11/20/08
Matrix: AQ - Ground Water	Date Received: 11/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028070.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.78	1.0	0.21	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	88%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-2		
Lab Sample ID: T24755-2		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028071.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028136.D	200	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6430 ^a	200	41	ug/l	
108-88-3	Toluene ^b	21.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	291 ^a	200	70	ug/l	
1330-20-7	Xylenes (total)	29.4	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%	91%	58-125%
98-08-8	aaa-Trifluorotoluene	150% ^c	111%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		
Lab Sample ID: T24755-3		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028072.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028137.D	100	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3240 ^a	100	21	ug/l	
108-88-3	Toluene ^b	27.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	83.7	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	44.3	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	108%	99%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4		
Lab Sample ID: T24755-4		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028073.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028138.D	10	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1970 ^a	10	2.1	ug/l	
108-88-3	Toluene	18.0	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	390 ^a	10	3.5	ug/l	
1330-20-7	Xylenes (total)	1090 ^a	20	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	131%	73-139%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-34		
Lab Sample ID: T24755-5		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028074.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028133.D	20	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	628 ^a	20	4.1	ug/l	
108-88-3	Toluene ^b	6.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	43.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	12.5	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%	83%	58-125%
98-08-8	aaa-Trifluorotoluene	123%	96%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-33		
Lab Sample ID: T24755-6		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028075.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	15.8	1.0	0.21	ug/l	
108-88-3	Toluene ^a	6.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	47.9	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	362	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		58-125%
98-08-8	aaa-Trifluorotoluene	138%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-17		
Lab Sample ID: T24755-7		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028076.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028143.D	100	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2510 ^a	100	21	ug/l	
108-88-3	Toluene	5.1	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	5.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	297	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	187% ^b	97%	73-139%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-17D		
Lab Sample ID: T24755-8		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028077.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028144.D	10	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1900 ^a	10	2.1	ug/l	
108-88-3	Toluene	5.4	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	5.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	301	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	177% ^b	95%	73-139%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-24	
Lab Sample ID: T24755-9	Date Sampled: 11/20/08
Matrix: AQ - Ground Water	Date Received: 11/21/08
Method: SW846 8021B	Percent Solids: n/a
Project: Spindle Gas Plant	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028132.D	1	11/25/08	FI	n/a	n/a	GKK1384
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	103%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-22		
Lab Sample ID: T24755-10		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028082.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.9	1.0	0.21	ug/l	
108-88-3	Toluene ^a	0.56	1.0	0.23	ug/l	J
100-41-4	Ethylbenzene	3.2	1.0	0.35	ug/l	
1330-20-7	Xylenes (total) ^a	0.72	2.0	0.55	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		58-125%
98-08-8	aaa-Trifluorotoluene	80%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: MW-36		
Lab Sample ID: T24755-11		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028083.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028146.D	20	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	443 ^a	20	4.1	ug/l	
108-88-3	Toluene ^b	25.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	113	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	506 ^a	40	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	83%	58-125%
98-08-8	aaa-Trifluorotoluene	84%	111%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-21		
Lab Sample ID: T24755-12		Date Sampled: 11/20/08
Matrix: AQ - Ground Water		Date Received: 11/21/08
Method: SW846 8021B		Percent Solids: n/a
Project: Spindle Gas Plant		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028084.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	38.8	1.0	0.21	ug/l	
108-88-3	Toluene	3.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	11.2	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	257	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		58-125%
98-08-8	aaa-Trifluorotoluene	84%		73-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SAMPLE INSPECTION FORM

Accutest Job Number: T24755 Client: CARDILLERAN COMPLIANCE Project: SPINDLE
 Date/Time Received: 11-20-08 0920 # of Coolers Received: 1 Thermometer # 110
 Cooler Temps: #1: 1-1 #2: #3: #4: #5: #6: #7: #8:
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 967047978470

- COOLER INFORMATION**
- Custody seal missing or not intact
 - Temperature criteria not met
 - Wet ice received in cooler

- CHAIN OF CUSTODY**
- Chain of Custody not received
 - Sample D/T unclear or missing
 - Analyses unclear or missing
 - COC not properly executed

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

- TRIP BLANK INFORMATION**
- Trip Blank on COC but not received
 - Trip Blank received but not on COC
 - Trip Blank not intact
 - Received Water Trip Blank
 - Received Soil TB

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

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [Signature] 11.21.08

INFORMATION AND SAMPLE LABELING VERIFIED BY: [Signature]

* * * * * **CORRECTIVE ACTIONS** * * * * *

Client Representative Notified: _____ Date: _____
 By Accutest Representative: _____ Via: Phone Email
 Client Instructions: _____

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SAMPLE RECEIPT LOG

JOB #: T24755 DATE/TIME RECEIVED: 11-21-08 09:00

CLIENT: ComStream Compliance INITIALS: IT

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW 1	11-20-08 0840	GW	40mL	1-3	VR	① 2 3 4 5 6 7 8	<2 >12
	2	MW 2	0900					② 2 3 4 5 6 7 8	<2 >12
	3	MW 3	0920					③ 2 3 4 5 6 7 8	<2 >12
	4	MW 4	0940					④ 2 3 4 5 6 7 8	<2 >12
	5	MW 34	1000					⑤ 2 3 4 5 6 7 8	<2 >12
	6	MW 35	1020					⑥ 2 3 4 5 6 7 8	<2 >12
	7	MW 17	1040					⑦ 2 3 4 5 6 7 8	<2 >12
	8	MW 17D	1040					⑧ 2 3 4 5 6 7 8	<2 >12
	9	MW 24	1100					⑨ 2 3 4 5 6 7 8	<2 >12
	10	MW 22	1120					⑩ 2 3 4 5 6 7 8	<2 >12
	11	MW 36	1140					⑪ 2 3 4 5 6 7 8	<2 >12
	12	MW 21	1200					⑫ 2 3 4 5 6 7 8	<2 >12
	13	Trip Blank		DI		1-2		1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12
11 11-21-08								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other
 LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

31
3



GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-MB	KK028069.D 1		11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	84%	58-125%
98-08-8	aaa-Trifluorotoluene	92%	73-139%

Method Blank Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-MB	KK028095.D	1	11/25/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	77%	58-125%
98-08-8	aaa-Trifluorotoluene	80%	73-139%

Method Blank Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-MB	KK028131.D 1		11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	85%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	73-139%

Method Blank Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-MB	KK028156.D 1		11/26/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	91%	58-125%
98-08-8	aaa-Trifluorotoluene	107%	73-139%

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-BS	KK028066.D 1		11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.3	97	86-121
100-41-4	Ethylbenzene	20	19.0	95	81-116
108-88-3	Toluene	20	18.7	94	87-117
1330-20-7	Xylenes (total)	60	56.8	95	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	89%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-BS	KK028092.D 1		11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.1	91	86-121
100-41-4	Ethylbenzene	20	17.7	89	81-116
108-88-3	Toluene	20	17.5	88	87-117
1330-20-7	Xylenes (total)	60	53.0	88	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	76%	58-125%
98-08-8	aaa-Trifluorotoluene	82%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-BS	KK028128.D 1		11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	86-121
100-41-4	Ethylbenzene	20	20.7	104	81-116
108-88-3	Toluene	20	20.6	103	87-117
1330-20-7	Xylenes (total)	60	60.7	101	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	87%	58-125%
98-08-8	aaa-Trifluorotoluene	102%	73-139%

4.2
4

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-BS	KK028153.D	1	11/26/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.2	101	86-121
100-41-4	Ethylbenzene	20	19.9	100	81-116
108-88-3	Toluene	20	20.0	100	87-117
1330-20-7	Xylenes (total)	60	58.5	98	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	88%	58-125%
98-08-8	aaa-Trifluorotoluene	103%	73-139%

4.2
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24755-1MS	KK028089.D 1		11/24/08	FI	n/a	n/a	GKK1383
T24755-1MSD	KK028090.D 1		11/24/08	FI	n/a	n/a	GKK1383
T24755-1	KK028070.D 1		11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	T24755-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.78	J	20	17.9	86	17.9	86	0	86-121/19
100-41-4	Ethylbenzene	ND		20	16.0	80* a	16.3	82	2	81-116/14
108-88-3	Toluene	ND		20	16.1	81* a	16.5	83* a	2	87-117/16
1330-20-7	Xylenes (total)	ND		60	47.8	80* a	48.5	81* a	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24755-1	Limits
460-00-4	4-Bromofluorobenzene	75%	78%	82%	58-125%
98-08-8	aaa-Trifluorotoluene	75%	88%	88%	73-139%

(a) Outside control limits, biased low.

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24755-9MS	KK028150.D	1	11/26/08	FI	n/a	n/a	GKK1384
T24755-9MSD	KK028151.D	1	11/26/08	FI	n/a	n/a	GKK1384
T24755-9	KK028132.D	1	11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	T24755-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	15.0	75* a	14.1	71* a	6	86-121/19
100-41-4	Ethylbenzene	ND	20	18.5	93	18.4	92	1	81-116/14
108-88-3	Toluene	ND	20	15.3	77* a	14.8	74* a	3	87-117/16
1330-20-7	Xylenes (total)	ND	60	55.2	92	54.9	92	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24755-9	Limits
460-00-4	4-Bromofluorobenzene	86%	89%	88%	58-125%
98-08-8	aaa-Trifluorotoluene	102%	104%	103%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

4.3
4