

SOIL SAMPLE RESULTS:**SDG 303978**

B-1-03
B-2-04
B-3-06
B-4-06
GP-12(II)-04
GP-7(II)-03
B-6-04
B-5-04.5
SDG 304173
B-6-23
GP-7(II)-19
GP-7(II)-19-Dup

SDG 304253

B-2-41
B-1-27
SDG 304421
B-3-33
B-5-27
SDG 304536
GP-12(II)-17
GP-12(II)-17-Dup
B-4-35

SOIL VAPOR SAMPLE RESULTS:**SDG 0806072**

GP-12-A-060308
GP-12-B-060308
GP-12-C-060308
GP-12-D-060308
GP-11-A-060308
GP-11-B-060308
GP-11-B-060308-DUP
GP-11-C-060308
GP-11-D-060308

SDG 0806099

GP-13-A-060408
GP-13-B-060408
GP-13-C-060408
GP-13-D-060408
GP-9-A-060408
GP-9-B-060408
GP-9-C-060408
GP-9-C-060408-DUP
GP-9-D-060408

GROUNDWATER SAMPLE RESULTS:**SDG 305672**

P58-060908
P58-060908D
P56-060908
P73-061008
P75-061008
P66-061008
P54-061008
P57-061108

SDG 305871

B1-061208
B2-061208
B2-061208D
B3-061208
B4-061208
B5-061308
B6-061308
SDG 308728
P54072508

Rand Avenue Data Review

Laboratory SDG: 303978

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

Sample Identification #	Sample Identification #
B-1-03	B-2-04
B-3-06	B-4-06
GP-12(II)-04	GP-7(II)-03
B-6-04	B-5-04.5
TB051508	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, although not indicated in the laboratory case narrative, VOCs were detected in the trip blank and method blank. The LCS recovery for methylene chloride and MS/MSD recoveries and MS/MSD RPDs were outside evaluation criteria. Samples were evaluated and qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB051508	VOCs	Methylene chloride	5.83	µg/L
509839-1-BLK	VOCs	Acetone	21.4	µg/L
509839-1-BLK	VOCs	Bromomethane	1.09	µg/L
509839-1-BLK	VOCs	1,3-Dichlorobenzene	1.13	µg/L
509839-1-BLK	VOCs	1,4-Dichlorobenzene	1.12	µg/L
509839-1-BLK	VOCs	Methylene chloride	8.59	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	RPD	LCS Criteria
509839-1-BKS	VOCs	Methylene chloride	160	N/A	75-125

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples did not require a dilution.

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminants acetone and 2-butanone reported at concentrations less than two times (2X) the RL.

Field ID	Analyte	New RL	Qualification	Comments
B-2-04	Acetone	-	U	Professional Judgment
B-2-04	2-Butanone	-	U	Professional Judgment
B-4-06	Acetone	-	U	Professional Judgment

Analytical Report 303978

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Avenue Vicinity / 21561979

04-JUN-08



E84880

4143 Greenbriar Dr., Stafford, TX 77477 Ph:(281) 240-4200 Fax:(281) 240-4280

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta

Page 1 of 32

Professional judgment was used to qualify benzene in samples GP-7(II)-19 and GP-7(II)-19 DUP. Benzene exceeded the calibration range of the instrument in these samples. The benzene results will be reported as > 150 in both samples.

Field ID	Analyte	Qualification	Comments
GP-7(II)-19	Benzene	J	Professional Judgment
GP-7(II)-19 DUP	Benzene	J	Professional Judgment



CASE NARRATIVE SUMMARY



Client Name: URS Corporation-St. Louis

Project Name: Rand Avenue Site

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 304173

Report Date: 05-JUN-08
Date Received: 20-MAY-08

Benzene was found at high levels on samples 002 and 003. These samples were analyzed at 1x (no dilutions). Benzene has been reported with E-flags (estimated values) .

50x dilutions were run from both, the methanol vial and sample jar . These results were below calibration and could not be reported. Both samples were also re-analyzed at 1x with similar over-calibration results.

Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 304173

URS Corporation-St. Louis, St. Louis, MO



Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity / 2156197

Date Received in Lab: May-20-08 09:45 am

Contact: Wendy Pennington

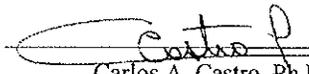
Report Date: 05-JUN-08

Project Location: Roxana, Illinois 62084

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	304173-001	304173-002	304173-003	304173-004
	<i>Field Id:</i>	B- 6- 23	GP-7 (II)-19	GP-7 (II) -9-Dup	TB051408
	<i>Depth:</i>				
	<i>Matrix:</i>	SOIL	SOIL	SOIL	WATER
	<i>Sampled:</i>	May-19-08 12:05	May-19-08 16:35	May-19-08 16:35	May-19-08 00:00
Percent Moisture	<i>Extracted:</i>				
	<i>Analyzed:</i>	May-22-08 08:27	May-22-08 08:38	May-22-08 08:29	
	<i>Units/RL:</i>	% RL	% RL	% RL	
Percent Moisture		8.63 1.00	3.55 1.00	3.37 1.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.


 Carlos A. Castro, Ph.D., MBA
 Managing Director, Texas



Prelogin/Nonconformance Report- Sample Log-In

Client: URS
 Date/ Time: 5/20/08
 Lab ID #: 304173-F1
 Initials: _____

Sample Receipt Checklist

#1 Temperature of container/ cooler?	Yes	No	N/A	2 - 0°C
#2 Shipping container in good condition?	Yes	No	None	
#3 Samples received on ice?	Yes	No	N/A	Blue Water
#4 Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5 Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6 Chain of Custody present?	Yes	No		
#7 Sample instructions complete of Chain of Custody?	Yes	No		
#8 Any missing/extra samples?	Yes	No		
#9 Chain of Custody signed when relinquished/ received?	Yes	No		
#10 Chain of Custody agrees with sample label(s)?	Yes	No		
Container label(s) legible and intact?	Yes	No		
#11 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#13 Samples in proper container/ bottle?	Yes	No		
#14 Samples properly preserved?	Yes	No	N/A	
#15 Sample container intact?	Yes	No		
#16 Sufficient sample amount for indicated test(s)?	Yes	No		
#17 All samples received within sufficient hold time?	Yes	No		
#18 Subcontract of sample(s)?	Yes	No	N/A	
#19 VOC samples have zero headspace?	Yes	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Rand Avenue Data Review

Laboratory SDG: 304253

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

Sample Identification #	Sample Identification #
B-2-41	B-1-27
TB052008	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

No, sample B-1-27 was designated as an MS/MSD sample on the COC to be analyzed for VOCs. The VOC MS/MSD data was not received as part of the data package. The laboratory was contacted and the data was requested.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, although not indicated in the laboratory case narrative, VOCs were detected in the trip blank and method blank. VOC LCS and surrogate recoveries for were outside evaluation criteria. Sample B-2-41 was analyzed at a dilution due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB052008	VOCs	Methylene chloride	3.03	µg/L
509521-1-BLK	VOCs	Methylene chloride	4.42	µg/L
509775-1-BLK	VOCs	Methylene chloride	30.4	µg/L
509839-1-BLK	VOCs	Acetone	21.4	µg/L
509839-1-BLK	VOCs	Bromomethane	1.09	µg/L
509839-1-BLK	VOCs	1,3-Dichlorobenzene	1.13	µg/L
509839-1-BLK	VOCs	1,4-Dichlorobenzene	1.12	µg/L
509839-1-BLK	VOCs	Methylene chloride	8.59	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
B-2-41	VOCs	Methylene chloride	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	RPD	LCS Criteria
509521-1-BKS	VOCs	2,2-Dichloropropane	72	N/A	75-125
509839-1-BKS	VOCs	Methylene chloride	160	N/A	75-125

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
B-1-27	VOCs	2,2-Dichloropropane	UJ

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
B-2-41	VOCs	50

11.0 Additional Qualifications

Were additional qualifications applied?

No

Rand Avenue Data Review

Laboratory SDG: 304421

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

Sample Identification #	Sample Identification #
B-3-33	B-5-27
TB052108	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, although not indicated in the laboratory case narrative, VOCs were detected in the trip blank and method blank. VOC LCS and MSD recoveries and the surrogate recovery for 4-Bromofluorobenzene were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
B-3-33	VOCs	4-Bromofluorobenzene	126	74-121

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
B-3-33	VOCs	Toluene	J

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, sample B-3-33 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
B-3-33	VOCs	Dichlorodifluoromethane	132/136	3	65-135/23
B-3-33	VOCs	1,2,4-Trichlorobenzene	83/73	13	75-135/25
B-3-33	VOCs	1,2,3-Trichlorobenzene	84/70	18	75-137/25

Analytical data that required qualification based on MS/MSD data are included in the table below. USEPA National Functional Guidelines for Organic Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of the data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples did not require a dilution.

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

No



04-JUN-08

Project Manager: Wendy Pennington
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **304421**
900 S. Central Avenue
Project Address: Roxana, Illinois 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 304421. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 304421 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Certificate of Analysis Summary 304421
URS Corporation-St. Louis, St. Louis, MO



Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity / 2156197

Date Received in Lab: May-22-08 10:00 am

Contact: Wendy Pennington

Report Date: 04-JUN-08

Project Location: Roxana, Illinois 62084

Project Manager: Debbie Simmons

Table with 6 columns and 3 rows containing analysis details for Percent Moisture. Columns represent Lab Id (304421-001, 304421-002, 304421-003) and analysis parameters (Field Id, Depth, Matrix, Sampled, Extracted, Analyzed, Units/RL).

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.

Handwritten signature of Carlos A. Castro and typed name Carlos A. Castro, Ph.D., MBA, Managing Director, Texas



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(214) 902 0300	(214) 351-9139
2505 N. Falkenburg Rd., Tampa, FL 33619	(210) 509-3334	(210) 509-3335
5757 NW 158th St, Miami Lakes, FL 33014	(813) 620-2000	(813) 620-2033
6017 Financial Dr., Norcross, GA 30071	(305) 823-8500	(305) 823-8555
	(770) 449-8800	(770) 449-5477



Prelogin/Nonconformance Report- Sample Log-In

Client: URS
 Date/ Time: 5/22/8
 Lab ID #: 304421-H
 Initials: (Signature)

Sample Receipt Checklist

#1	Temperature of container/ cooler?	Yes	No	N/A	(Signature)
#2	Shipping container in good condition?	Yes	No	None	
#3	Samples received on ice?	Yes	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	(N/A)	
#6	Chain of Custody present?	Yes	No		
#7	Sample instructions complete of Chain of Custody?	Yes	No		
#8	Any missing/extra samples?	Yes	No		
#9	Chain of Custody signed when relinquished/ received?	Yes	No		
#10	Chain of Custody agrees with sample label(s)?	Yes	No		
	Container label(s) legible and intact?	Yes	No		
#12	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#13	Samples in proper container/ bottle?	Yes	No		
#14	Samples properly preserved?	Yes	No	N/A	
#15	Sample container intact?	Yes	No		
#16	Sufficient sample amount for indicated test(s)?	Yes	No		
#17	All samples received within sufficient hold time?	Yes	No		
#18	Subcontract of sample(s)?	Yes	No	N/A	
#19	VOC samples have zero headspace?	Yes	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Rand Avenue Data Review

Laboratory SDG: 304536

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

Sample Identification #	Sample Identification #
B-4-35	GP-12(II)-17
GP-12(II)-17-DUP	TB052208

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, although not indicated in the laboratory case narrative, VOCs were detected in the trip blank and method blank. The LCS recovery for methylene chloride was outside evaluation criteria. Samples were evaluated and qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
509775-1-BLK	VOCs	Methylene chloride	30.4	µg/L
509839-1-BLK	VOCs	Acetone	21.4	µg/L
509839-1-BLK	VOCs	Bromomethane	1.09	µg/L
509839-1-BLK	VOCs	1,3-Dichlorobenzene	1.13	µg/L
509839-1-BLK	VOCs	1,4-Dichlorobenzene	1.12	µg/L
509839-1-BLK	VOCs	Methylene chloride	8.59	µg/L
509898-1-BLK	VOCs	Methylene chloride	21.6	µg/L
TB052208	VOCs	Methylene chloride	2.36	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
B-4-35	VOCs	Methylene chloride	-	U
GP-12(II)-17	VOCs	Methylene chloride	-	U
GP-12(II)-17-DUP	VOCs	Methylene chloride	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
509839-1-BKS	VOCs	Methylene chloride	160	N/A	75-125

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GP-12(II)-17	GP-12(II)-17-DUP

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples did not require a dilution.

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant acetone reported at concentrations less than two times (2X) the RL.

Field ID	Analyte	New RL	Qualification	Comments
GP-12(II)-17-DUP	Acetone	-	U	Professional Judgment

Analytical Report 304536

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity / 21561979

04-JUN-08



E84880

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Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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Midland - Corpus Christi - Atlanta



04-JUN-08

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **304536**
900 S. Central Avenue
Project Address: Roxana, Illinois 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 304536. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 304536 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Certificate of Analysis Summary 304536
 URS Corporation-St. Louis, St. Louis, MO



Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity / 2156197

Date Received in Lab: May-23-08 09:30 am

Contact: Wendy Pennington

Report Date: 04-JUN-08

Project Location: Roxana, Illinois 62084

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	304536-001	304536-002	304536-003	304536-004
	<i>Field Id:</i>	B-4-35	GP-12(H)-17	GP-12(H)-17-Dup	TB052208
	<i>Depth:</i>				
	<i>Matrix:</i>	SOIL	SOIL	SOIL	WATER
	<i>Sampled:</i>	May-22-08 09:35	May-22-08 14:25	May-22-08 14:25	May-22-08 00:00
Percent Moisture	<i>Extracted:</i>				
	<i>Analyzed:</i>	May-29-08 13:04	May-29-08 13:05	May-29-08 13:06	
	<i>Units/RL:</i>	% RL	% RL	% RL	
Percent Moisture		7.27 1.00	1.85 1.00	3.52 1.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos A. Castro, Ph.D., MBA
 Managing Director, Texas



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Prelogin/Nonconformance Report- Sample Log-In

Client: URS
 Date/ Time: 5/23/8
 Lab ID #: 304536-4
 Initials: A

Sample Receipt Checklist

#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	N/A	20°C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	No	None	
#3 Samples received on ice?	<input checked="" type="checkbox"/> Yes	No	N/A	<input checked="" type="checkbox"/> Blue/Water
#4 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	No	N/A	
#5 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	No	<input checked="" type="checkbox"/> N/A	
#6 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	No		
#7 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
#8 Any missing/extra samples?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
#9 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No		
#10 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	No		
#11 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
#13 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No		
#14 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	N/A	
#15 Sample container intact?	<input checked="" type="checkbox"/> Yes	No		
#16 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No		
#17 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
#18 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	No	N/A	
#19 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event