TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-25727-1

Job Description: Goodyear/Livermore/GASC/DEX#5389

For:
URS Corporation
1375 Euclid Avenue
Suite 600
Cleveland, OH 44115

Attention: Ms. Jennifer Barcza

Approved for release.
Afsaneh Salimpour
Project Manager I
2/10/2010 4:21 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
02/10/2010

CA ELAP Certification # 2496
The Chain(s) of Custody are included and are an integral part of this report.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
Sample SB06-1112: Received 2 containers but no MS/MSD requested on COC.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB03-1112 (720-25727-5).

Method(s) 8015B: Concentrations reported represent individual or discrete peaks: 720-25727-7

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 720-25727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-25727-5	SB03-1112				
Diesel Range Organics [C10-C28]		1600	9.9	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		2200	500	mg/Kg	8015B
720-25727-7	SB01-1112				
Diesel Range Organics [C10-C28]		2.1	1.0	mg/Kg	8015B

METHOD SUMMARY

Job Number: 720-25727-1

Client: URS Corporation

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 720-25727-1

Method	Analyst	Analyst ID
SW846 8260B	Nguyen, Thuy M	TMN
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

SAMPLE SUMMARY

Job Number: 720-25727-1

Client: URS Corporation

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-25727-1	SB07-1112	Solid	02/03/2010 0900	02/03/2010 1800
720-25727-2	SB06-1112	Solid	02/03/2010 1015	02/03/2010 1800
720-25727-3	SB05-1112	Solid	02/03/2010 1330	02/03/2010 1800
720-25727-4	SB04-1112	Solid	02/03/2010 1200	02/03/2010 1800
720-25727-5	SB03-1112	Solid	02/03/2010 1445	02/03/2010 1800
720-25727-6	SB02-1112	Solid	02/03/2010 1630	02/03/2010 1800
720-25727-7	SB01-1112	Solid	02/03/2010 1540	02/03/2010 1800

Client: URS Corporation

Client Sample ID: SB02-1112

Lab Sample ID: 720-25727-6

Client Matrix: Solid

Date Sampled: 02/03/2010 1630

Date Received: 02/03/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 02/04/2010 1927

Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515

Prep Batch: 720-65561

Instrument ID: HP9

Lab File ID: 02041019.D

Initial Weight/Volume: 5.04 g

Final Weight/Volume: 10 mL

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		9.9
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		9.9
Chloroform	ND		5.0
Chloromethane	ND		9.9
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		9.9
Dichlorodifluoromethane	ND		9.9
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		50
2-Hexanone	ND		5.0
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		9.9
Methylene Chloride	ND		50
4-Methyl-2-pentanone (MIBK)	ND		9.9
Naphthalene	ND		

Client: URS Corporation

Client Sample ID: SB02-1112
Lab Sample ID: 720-25727-6
Client Matrix: Solid

Date Sampled: 02/03/2010 1630
Date Received: 02/03/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/04/2010 1927
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561

Instrument ID: HP9
Lab File ID: 02041019.D
Initial Weight/Volume: 5.04 g
Final Weight/Volume: 10 mL

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5.0
Vinyl chloride	ND		9.9
Xylenes, Total	ND		5.0
2,2-Dichloropropane	ND		250
Gasoline Range Organics (GRO)-C5-C12	ND		

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: URS Corporation

Client Sample ID: SB01-1112

Lab Sample ID: 720-25727-7

Client Matrix: Solid

Date Sampled: 02/03/2010 1540

Date Received: 02/03/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 02/04/2010 2101

Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515

Prep Batch: 720-65561

Instrument ID: HP9

Lab File ID: 02041022.D

Initial Weight/Volume: 5.22 g

Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.6
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.6
Chloroform		ND		4.8
Chloromethane		ND		9.6
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		4.8
Ethylene Dibromide		ND		9.6
Dibromomethane		ND		9.6
Dichlorodifluoromethane		ND		4.8
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		48
2-Hexanone		ND		4.8
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		9.6
Methylene Chloride		ND		48
4-Methyl-2-pentanone (MIBK)		ND		9.6
Naphthalene		ND		

Client: URS Corporation

Client Sample ID: SB01-1112
Lab Sample ID: 720-25727-7
Client Matrix: Solid

Date Sampled: 02/03/2010 1540
Date Received: 02/03/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/04/2010 2101
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561

Instrument ID: HP9
Lab File ID: 02041022.D
Initial Weight/Volume: 5.22 g
Final Weight/Volume: 10 mL

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene	ND		4.8
Styrene	ND		4.8
1,1,1,2-Tetrachloroethane	ND		4.8
1,1,2,2-Tetrachloroethane	ND		4.8
Tetrachloroethene	ND		4.8
Toluene	ND		4.8
1,2,3-Trichlorobenzene	ND		4.8
1,2,4-Trichlorobenzene	ND		4.8
1,1,1-Trichloroethane	ND		4.8
1,1,2-Trichloroethane	ND		4.8
Trichloroethene	ND		4.8
Trichlorofluoromethane	ND		4.8
1,2,3-Trichloropropane	ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8
1,2,4-Trimethylbenzene	ND		4.8
1,3,5-Trimethylbenzene	ND		48
Vinyl acetate	ND		4.8
Vinyl chloride	ND		9.6
Xylenes, Total	ND		4.8
2,2-Dichloropropane	ND		240
Gasoline Range Organics (GRO)-C5-C12			

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: URS Corporation

Client Sample ID: SB07-1112

Lab Sample ID: 720-25727-1

Client Matrix: Solid

Date Sampled: 02/03/2010 0900

Date Received: 02/03/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-65479		Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-65570		Lab File ID:	02041010.D
Dilution:	1.0			Initial Weight/Volume:	5.36 g
Date Analyzed:	02/04/2010 1416			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: URS Corporation

Client Sample ID: SB06-1112
Lab Sample ID: 720-25727-2
Client Matrix: Solid

Date Sampled: 02/03/2010 1015
Date Received: 02/03/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/04/2010 1451
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65479
Prep Batch: 720-65570

Instrument ID: CHMSV2
Lab File ID: 02041011.D
Initial Weight/Volume: 5.36 g
Final Weight/Volume: 10 mL

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	93		58 - 140

Client: URS Corporation

Client Sample ID: SB05-1112

Lab Sample ID: 720-25727-3

Client Matrix: Solid

Date Sampled: 02/03/2010 1330

Date Received: 02/03/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-65479	Instrument ID: CHMSV2
Preparation:	5030B	Prep Batch: 720-65570	Lab File ID: 02041012.D
Dilution:	1.0		Initial Weight/Volume: 5.16 g
Date Analyzed:	02/04/2010 1523		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: URS Corporation

Client Sample ID: SB04-1112

Lab Sample ID: 720-25727-4

Client Matrix: Solid

Date Sampled: 02/03/2010 1200

Date Received: 02/03/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-65479	Instrument ID: CHMSV2
Preparation:	5030B	Prep Batch: 720-65570	Lab File ID: 02041013.D
Dilution:	1.0		Initial Weight/Volume: 5.15 g
Date Analyzed:	02/04/2010 1553		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

DryWt Corrected: N

Analyte	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: URS Corporation

Job Number: 720-25727-1

Client Sample ID: SB03-1112

Lab Sample ID: 720-25727-5

Client Matrix: Solid

Date Sampled: 02/03/2010 1445

Date Received: 02/03/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-65479		Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-65570		Lab File ID:	02041014.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	02/04/2010 1625			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		52 - 140
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	91		58 - 140

Client: URS Corporation

Client Sample ID: SB07-1112

Lab Sample ID: 720-25727-1

Client Matrix: Solid

Date Sampled: 02/03/2010 0900

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Preparation: 3550B

Dilution: 1.0

Date Analyzed: 02/06/2010 0041

Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544

Prep Batch: 720-65573

Instrument ID: CHDRO5

Initial Weight/Volume: 30.16 g

Final Weight/Volume: 5 mL

Injection Volume: 1 uL

Result Type: PRIMARY

DryWt Corrected: N

Analyte	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	95		31 - 114

Client: URS Corporation

Client Sample ID: SB06-1112

Lab Sample ID: 720-25727-2

Client Matrix: Solid

Date Sampled: 02/03/2010 1015

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Preparation: 3550B

Dilution: 1.0

Date Analyzed: 02/06/2010 0156

Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544

Prep Batch: 720-65573

Instrument ID: CHDRO5

Initial Weight/Volume: 30.38 g

Final Weight/Volume: 5 mL

Injection Volume: 1 uL

Result Type: PRIMARY

DryWt Corrected: N

Analyte	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	97		31 - 114

Client: URS Corporation

Client Sample ID: SB05-1112

Lab Sample ID: 720-25727-3

Client Matrix: Solid

Date Sampled: 02/03/2010 1330

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Preparation: 3550B

Dilution: 1.0

Date Analyzed: 02/06/2010 0221

Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544

Prep Batch: 720-65573

Instrument ID: CHDRO5

Initial Weight/Volume: 30.17 g

Final Weight/Volume: 5 mL

Injection Volume: 1 uL

Result Type: PRIMARY

DryWt Corrected: N

Analyte	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	96		31 - 114

Client: URS Corporation

Client Sample ID: SB04-1112

Lab Sample ID: 720-25727-4

Client Matrix: Solid

Date Sampled: 02/03/2010 1200

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-65544		Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-65573		Initial Weight/Volume:	30.20 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	02/06/2010 0246			Injection Volume:	1 uL
Date Prepared:	02/05/2010 1150			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	95		31 - 114

Client: URS Corporation

Job Number: 720-25727-1

Client Sample ID: SB03-1112

Lab Sample ID: 720-25727-5

Client Matrix: Solid

Date Sampled: 02/03/2010 1445

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Preparation: 3550B

Dilution: 10

Date Analyzed: 02/06/2010 1310

Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65625

Prep Batch: 720-65573

Instrument ID: CHDRO5

Initial Weight/Volume: 30.19 g

Final Weight/Volume: 5 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1600		9.9
Motor Oil Range Organics [C24-C36]		2200		500

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	0	D	31 - 114

Client: URS Corporation

Client Sample ID: SB02-1112

Lab Sample ID: 720-25727-6

Client Matrix: Solid

Date Sampled: 02/03/2010 1630

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-65625		Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-65573		Initial Weight/Volume:	30.43 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Date Analyzed:	02/06/2010 1335			Injection Volume:	1 uL
Date Prepared:	02/05/2010 1150			Result Type:	PRIMARY

DryWt Corrected: N

Analyte	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	93		31 - 114

Client: URS Corporation

Client Sample ID: SB01-1112

Lab Sample ID: 720-25727-7

Client Matrix: Solid

Date Sampled: 02/03/2010 1540

Date Received: 02/03/2010 1800

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Preparation: 3550B

Dilution: 1.0

Date Analyzed: 02/06/2010 1400

Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65625

Prep Batch: 720-65573

Instrument ID: CHDRO5

Initial Weight/Volume: 30.13 g

Final Weight/Volume: 5 mL

Injection Volume: 1 uL

Result Type: PRIMARY

DryWt Corrected: N

Analyte	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]	2.1		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	88		31 - 114

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 720-25727-1

Lab Section	Qualifier	Description
GC Semi VOA		
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Client: URS Corporation

Job Number: 720-25727-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-65479					
LCS 720-65570/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-65570
LCSD 720-65570/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-65570
MB 720-65570/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-65570
720-25727-1	SB07-1112	T	Solid	8260B/CA_LUFT	720-65570
720-25727-2	SB06-1112	T	Solid	8260B/CA_LUFT	720-65570
720-25727-3	SB05-1112	T	Solid	8260B/CA_LUFT	720-65570
720-25727-4	SB04-1112	T	Solid	8260B/CA_LUFT	720-65570
720-25727-5	SB03-1112	T	Solid	8260B/CA_LUFT	720-65570
Analysis Batch:720-65515					
LCS 720-65561/2-A	Lab Control Sample	T	Solid	8260B	720-65561
LCS 720-65561/4-A	Lab Control Sample	T	Solid	8260B	720-65561
LCSD 720-65561/3-A	Lab Control Sample Duplicate	T	Solid	8260B	720-65561
LCSD 720-65561/5-A	Lab Control Sample Duplicate	T	Solid	8260B	720-65561
MB 720-65561/1-A	Method Blank	T	Solid	8260B	720-65561
720-25727-6	SB02-1112	T	Solid	8260B	720-65561
720-25727-6MS	Matrix Spike	T	Solid	8260B	720-65561
720-25727-6MSD	Matrix Spike Duplicate	T	Solid	8260B	720-65561
720-25727-7	SB01-1112	T	Solid	8260B	720-65561
Prep Batch: 720-65561					
LCS 720-65561/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-65561/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-65561/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-65561/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-65561/1-A	Method Blank	T	Solid	5030B	
720-25727-6	SB02-1112	T	Solid	5030B	
720-25727-6MS	Matrix Spike	T	Solid	5030B	
720-25727-6MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-25727-7	SB01-1112	T	Solid	5030B	
Prep Batch: 720-65570					
LCS 720-65570/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-65570/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-65570/1-A	Method Blank	T	Solid	5030B	
720-25727-1	SB07-1112	T	Solid	5030B	
720-25727-2	SB06-1112	T	Solid	5030B	
720-25727-3	SB05-1112	T	Solid	5030B	
720-25727-4	SB04-1112	T	Solid	5030B	
720-25727-5	SB03-1112	T	Solid	5030B	

Report Basis
T = Total

Job Number: 720-25727-1

Client: URS Corporation

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:720-65544					
LCS 720-65573/2-A	Lab Control Sample	T	Solid	8015B	720-65573
LCSD 720-65573/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-65573
MB 720-65573/1-A	Method Blank	T	Solid	8015B	720-65573
720-25727-1	SB07-1112	T	Solid	8015B	720-65573
720-25727-1MS	Matrix Spike	T	Solid	8015B	720-65573
720-25727-1MSD	Matrix Spike Duplicate	T	Solid	8015B	720-65573
720-25727-2	SB06-1112	T	Solid	8015B	720-65573
720-25727-3	SB05-1112	T	Solid	8015B	720-65573
720-25727-4	SB04-1112				
Prep Batch: 720-65573					
LCS 720-65573/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-65573/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-65573/1-A	Method Blank	T	Solid	3550B	
720-25727-1	SB07-1112	T	Solid	3550B	
720-25727-1MS	Matrix Spike	T	Solid	3550B	
720-25727-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-25727-2	SB06-1112	T	Solid	3550B	
720-25727-3	SB05-1112	T	Solid	3550B	
720-25727-4	SB04-1112	T	Solid	3550B	
720-25727-5	SB03-1112	T	Solid	3550B	
720-25727-6	SB02-1112	T	Solid	3550B	
720-25727-7	SB01-1112				
Analysis Batch:720-65625					
720-25727-5	SB03-1112	T	Solid	8015B	720-65573
720-25727-6	SB02-1112	T	Solid	8015B	720-65573
720-25727-7	SB01-1112	T	Solid	8015B	720-65573

Report Basis
T = Total

Client: URS Corporation

Job Number: 720-25727-1

Method Blank - Batch: 720-65561

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-65561/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1609
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561
Units: ug/Kg

Instrument ID: HP9
Lab File ID: 02041013.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Method Blank - Batch: 720-65561

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-65561/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1609
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561
Units: ug/Kg

Instrument ID: HP9
Lab File ID: 02041013.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5.0
Vinyl chloride	ND		10
Xylenes, Total	ND		5.0
2,2-Dichloropropane	ND		250
Gasoline Range Organics (GRO)-C5-C12			

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	52 - 140
1,2-Dichloroethane-d4 (Surr)	109	60 - 140
Toluene-d8 (Surr)	99	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-65561/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1640
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561
Units: ug/Kg

Instrument ID: HP9
Lab File ID: 02041014.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-65561/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1712
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65515
Prep Batch: 720-65561
Units: ug/Kg

Instrument ID: HP9
Lab File ID: 02041015.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	123	112	71 - 144	9	20		
Acetone	90	76	54 - 147	17	20		
Benzene	114	112	82 - 124	2	20		
Dichlorobromomethane	122	118	97 - 138	3	20		
Bromobenzene	117	118	92 - 123	1	20		
Chlorobromomethane	117	114	86 - 128	3	20		
Bromoform	120	115	59 - 158	5	20		
Bromomethane	98	99	71 - 136	1	20		
2-Butanone (MEK)	111	100	61 - 150	11	20		
n-Butylbenzene	118	121	80 - 142	2	20		
sec-Butylbenzene	120	123	85 - 136	3	20		
tert-Butylbenzene	120	123	85 - 134	2	20		
Carbon disulfide	111	111	60 - 136	0	20		
Carbon tetrachloride	119	120	81 - 138	1	20		
Chlorobenzene	111	111	86 - 126	0	20		
Chloroethane	103	106	69 - 141	3	20		
Chloroform	113	111	89 - 126	1	20		
Chloromethane	93	93	60 - 149	1	20		
2-Chlorotoluene	117	118	80 - 138	1	20		
4-Chlorotoluene	115	116	79 - 136	1	20		
Chlorodibromomethane	123	117	75 - 146	5	20		
1,2-Dichlorobenzene	116	116	84 - 130	0	20		
1,3-Dichlorobenzene	115	115	84 - 131	0	20		
1,4-Dichlorobenzene	111	110	85 - 125	1	20		
1,3-Dichloropropane	114	108	91 - 135	5	20		
1,1-Dichloropropene	118	118	70 - 130	0	20		
1,2-Dibromo-3-Chloropropane	106	100	68 - 145	6	20		
Ethylene Dibromide	122	114	86 - 137	7	20		
Dibromomethane	117	111	90 - 130	5	20		
Dichlorodifluoromethane	77	80	37 - 158	4	20		
1,1-Dichloroethane	110	111	90 - 126	1	20		
1,2-Dichloroethane	114	106	78 - 140	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-65561/2-A	Analysis Batch:	720-65515	Instrument ID:	HP9
Client Matrix:	Solid	Prep Batch:	720-65561	Lab File ID:	02041014.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	02/04/2010 1640			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

LCSD Lab Sample ID:	LCSD 720-65561/3-A	Analysis Batch:	720-65515	Instrument ID:	HP9
Client Matrix:	Solid	Prep Batch:	720-65561	Lab File ID:	02041015.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	02/04/2010 1712			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	109	109	88 - 124	0	20		
cis-1,2-Dichloroethene	121	118	91 - 133	3	20		
trans-1,2-Dichloroethene	102	102	84 - 115	1	20		
1,2-Dichloropropane	112	108	91 - 126	4	20		
cis-1,3-Dichloropropene	127	121	92 - 136	5	20		
trans-1,3-Dichloropropene	124	116	84 - 136	6	20		
Ethylbenzene	119	121	80 - 137	2	20		
Hexachlorobutadiene	113	114	72 - 132	1	20		
2-Hexanone	110	97	60 - 161	13	20		
Isopropylbenzene	103	105	76 - 112	2	20		
4-Isopropyltoluene	118	121	85 - 133	3	20		
Methylene Chloride	112	108	72 - 134	4	20		
4-Methyl-2-pentanone (MIBK)	122	109	69 - 160	11	20		
Naphthalene	128	124	70 - 147	3	20		
N-Propylbenzene	119	121	84 - 131	2	20		
Styrene	125	123	89 - 126	1	20		
1,1,1,2-Tetrachloroethane	119	119	90 - 130	0	20		
1,1,2,2-Tetrachloroethane	120	112	82 - 146	7	20		
Tetrachloroethene	118	118	78 - 132	0	20		
Toluene	110	112	83 - 128	2	20		
1,2,3-Trichlorobenzene	118	117	74 - 136	1	20		
1,2,4-Trichlorobenzene	112	110	70 - 131	1	20		
1,1,1-Trichloroethane	118	118	85 - 133	0	20		
1,1,2-Trichloroethane	119	113	92 - 137	5	20		
Trichloroethene	113	115	81 - 133	2	20		
Trichlorofluoromethane	102	102	71 - 139	0	20		
1,2,3-Trichloropropane	114	110	76 - 146	4	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	112	113	70 - 130	1	20		
1,2,4-Trimethylbenzene	123	126	90 - 138	2	20		
1,3,5-Trimethylbenzene	120	123	86 - 134	3	20		
Vinyl acetate	107	100	38 - 176	8	20		
Vinyl chloride	103	105	63 - 140	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-65561/2-A	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041014.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	02/04/2010 1640		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

LCSD Lab Sample ID:	LCSD 720-65561/3-A	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041015.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	02/04/2010 1712		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,2-Dichloropropane	123	125	73 - 162	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	102	52 - 140
1,2-Dichloroethane-d4 (Surr)	107	105	60 - 140
Toluene-d8 (Surr)	103	101	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Job Number: 720-25727-1

Client: URS Corporation

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-65561/4-A	Analysis Batch:	720-65515	Instrument ID:	HP9
Client Matrix:	Solid	Prep Batch:	720-65561	Lab File ID:	02041016.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	02/04/2010 1743			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

LCSD Lab Sample ID:	LCSD 720-65561/5-A	Analysis Batch:	720-65515	Instrument ID:	HP9
Client Matrix:	Solid	Prep Batch:	720-65561	Lab File ID:	02041017.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	02/04/2010 1814			Final Weight/Volume:	10 mL
Date Prepared:	02/04/2010 0800				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C5-C12	82	83	68 - 115	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	102	52 - 140
1,2-Dichloroethane-d4 (Surr)	106	106	60 - 140
Toluene-d8 (Surr)	103	104	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041020.D
Dilution:	1.0		Initial Weight/Volume: 5.37 g
Date Analyzed:	02/04/2010 1958		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

MSD Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041021.D
Dilution:	1.0		Initial Weight/Volume: 5.15 g
Date Analyzed:	02/04/2010 2030		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Methyl tert-butyl ether	112	112	69 - 130	4	20		
Acetone	82	79	37 - 150	1	20		
Benzene	105	105	70 - 130	3	20		
Dichlorobromomethane	115	113	64 - 135	3	20		
Bromobenzene	112	111	70 - 130	3	20		
Chlorobromomethane	110	110	65 - 130	4	20		
Bromoform	112	114	58 - 132	6	20		
Bromomethane	92	89	56 - 130	1	20		
2-Butanone (MEK)	99	100	41 - 150	6	20		
n-Butylbenzene	112	110	60 - 145	3	20		
sec-Butylbenzene	117	116	64 - 137	3	20		
tert-Butylbenzene	118	118	63 - 134	4	20		
Carbon disulfide	104	102	10 - 150	3	20		
Carbon tetrachloride	112	111	54 - 130	3	20		
Chlorobenzene	106	104	70 - 130	3	20		
Chloroethane	96	94	61 - 130	2	20		
Chloroform	106	106	67 - 130	4	20		
Chloromethane	92	90	50 - 131	1	20		
2-Chlorotoluene	113	113	70 - 130	4	20		
4-Chlorotoluene	109	109	70 - 130	4	20		
Chlorodibromomethane	115	113	60 - 141	3	20		
1,2-Dichlorobenzene	111	110	70 - 130	3	20		
1,3-Dichlorobenzene	109	108	70 - 130	3	20		
1,4-Dichlorobenzene	106	104	70 - 130	3	20		
1,3-Dichloropropane	104	106	70 - 130	6	20		
1,1-Dichloropropene	109	108	67 - 130	3	20		
1,2-Dibromo-3-Chloropropane	92	93	57 - 130	4	20		
Ethylene Dibromide	110	109	66 - 135	3	20		
Dibromomethane	108	107	65 - 131	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041020.D
Dilution:	1.0		Initial Weight/Volume: 5.37 g
Date Analyzed:	02/04/2010 1958		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

MSD Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041021.D
Dilution:	1.0		Initial Weight/Volume: 5.15 g
Date Analyzed:	02/04/2010 2030		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dichlorodifluoromethane	74	73	38 - 130	3	20		
1,1-Dichloroethane	104	103	67 - 130	3	20		
1,2-Dichloroethane	105	104	70 - 130	3	20		
1,1-Dichloroethene	104	102	64 - 130	2	20		
cis-1,2-Dichloroethene	114	112	68 - 131	3	20		
trans-1,2-Dichloroethene	96	94	70 - 130	2	20		
1,2-Dichloropropane	105	103	65 - 133	2	20		
cis-1,3-Dichloropropene	117	115	46 - 139	2	20		
trans-1,3-Dichloropropene	113	112	55 - 131	3	20		
Ethylbenzene	114	114	65 - 130	4	20		
Hexachlorobutadiene	106	106	58 - 132	5	20		
2-Hexanone	100	99	44 - 150	3	20		
Isopropylbenzene	99	98	65 - 130	4	20		
4-Isopropyltoluene	115	113	69 - 134	3	20		
Methylene Chloride	105	103	63 - 130	2	20		
4-Methyl-2-pentanone (MIBK)	111	109	51 - 140	3	20		
Naphthalene	114	116	45 - 146	6	20		
N-Propylbenzene	113	113	70 - 130	4	20		
Styrene	118	116	58 - 135	3	20		
1,1,1,2-Tetrachloroethane	114	112	64 - 133	2	20		
1,1,2,2-Tetrachloroethane	113	113	70 - 131	4	20		
Tetrachloroethene	109	108	67 - 130	3	20		
Toluene	104	104	70 - 130	4	20		
1,2,3-Trichlorobenzene	103	104	58 - 138	5	20		
1,2,4-Trichlorobenzene	99	98	49 - 144	3	20		
1,1,1-Trichloroethane	109	108	57 - 133	3	20		
1,1,2-Trichloroethane	110	111	68 - 132	4	20		
Trichloroethene	107	107	66 - 130	4	20		
Trichlorofluoromethane	96	96	61 - 130	4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-65561

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041020.D
Dilution:	1.0		Initial Weight/Volume: 5.37 g
Date Analyzed:	02/04/2010 1958		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

MSD Lab Sample ID:	720-25727-6	Analysis Batch: 720-65515	Instrument ID: HP9
Client Matrix:	Solid	Prep Batch: 720-65561	Lab File ID: 02041021.D
Dilution:	1.0		Initial Weight/Volume: 5.15 g
Date Analyzed:	02/04/2010 2030		Final Weight/Volume: 10 mL
Date Prepared:	02/04/2010 0800		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,2,3-Trichloropropane	110	111	62 - 150	5	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	106	102	52 - 130	0	20		
1,2,4-Trimethylbenzene	120	120	64 - 140	5	20		
1,3,5-Trimethylbenzene	118	117	67 - 134	3	20		
Vinyl acetate	81	73	52 - 150	6	20		
Vinyl chloride	95	96	62 - 130	6	20		
2,2-Dichloropropane	112	111	63 - 130	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	101	52 - 140
1,2-Dichloroethane-d4 (Surr)	102	103	60 - 140
Toluene-d8 (Surr)	100	98	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Method Blank - Batch: 720-65570

Method: 8260B/CA_LUFTMS
Preparation: 5030B

Lab Sample ID: MB 720-65570/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1044
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65479
Prep Batch: 720-65570
Units: ug/Kg

Instrument ID: CHMSV2
Lab File ID: 02041004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		250

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	52 - 140
1,2-Dichloroethane-d4 (Surr)	97	60 - 140
Toluene-d8 (Surr)	98	58 - 140

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65570

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID: LCS 720-65570/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1248
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65479
Prep Batch: 720-65570
Units: ug/Kg

Instrument ID: CHMSV2
Lab File ID: 02041007.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-65570/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/04/2010 1324
Date Prepared: 02/04/2010 0800

Analysis Batch: 720-65479
Prep Batch: 720-65570
Units: ug/Kg

Instrument ID: CHMSV2
Lab File ID: 02041008.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C5-C12	79	80	68 - 115	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	98	52 - 140
1,2-Dichloroethane-d4 (Surr)	96	95	60 - 140
Toluene-d8 (Surr)	99	100	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Method Blank - Batch: 720-65573

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-65573/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/06/2010 0515
Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544
Prep Batch: 720-65573
Units: mg/Kg

Instrument ID: CHDRO5
Lab File ID: 5a0205052.d
Initial Weight/Volume: 30.33 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	95	31 - 114

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-65573

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-65573/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/06/2010 0426
Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544
Prep Batch: 720-65573
Units: mg/Kg

Instrument ID: CHDRO5
Lab File ID: 5a0205050.d
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-65573/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/06/2010 0450
Date Prepared: 02/05/2010 1150

Analysis Batch: 720-65544
Prep Batch: 720-65573
Units: mg/Kg

Instrument ID: CHDRO5
Lab File ID: 5a0205051.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	96	98	49 - 115	2	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	99	103	31 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: URS Corporation

Job Number: 720-25727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-65573

Method: 8015B
Preparation: 3550B

MS Lab Sample ID:	720-25727-1
Client Matrix:	Solid
Dilution:	1.0
Date Analyzed:	02/06/2010 0106
Date Prepared:	02/05/2010 1150

Analysis Batch: 720-65544
Prep Batch: 720-65573

Instrument ID:	CHDRO5
Lab File ID:	5a0205042.d
Initial Weight/Volume:	30.27 g
Final Weight/Volume:	5 mL
Injection Volume:	1 uL
Column ID:	PRIMARY

MSD Lab Sample ID:	720-25727-1
Client Matrix:	Solid
Dilution:	1.0
Date Analyzed:	02/06/2010 0131
Date Prepared:	02/05/2010 1150

Analysis Batch: 720-65544
Prep Batch: 720-65573

Instrument ID:	CHDRO5
Lab File ID:	5a0205043.d
Initial Weight/Volume:	30.32 g
Final Weight/Volume:	5 mL
Injection Volume:	1 uL
Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	93	86	50 - 130	9	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	96	97	31 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.