

Appendix A

Photographs – June 2013 and October 2013



PHOTOGRAPHIC LOG

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 1	Date: 06/17/2013		
Direction Photo Taken: Northwest			
Description: P6170022 Looking NW across 2013FNL-03 and -07			

Photo No. 2	Date: 06/17/2013	
Direction Photo Taken: Northwest		
Description: P6170023 Looking NW across 2013FNL-03 and -07 Duplicated previous (photograph – was concerned about lighting)		



PHOTOGRAPHIC LOG

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 3	Date: 06/17/2013		
Direction Photo Taken: West, northwest			
Description: P6170024 Looking WNW across 2013FNL-03 and -07			

Photo No. 4	Date: 06/17/2013	
Direction Photo Taken: North, northeast		
Description: P6170025 Looking NNE across 2013FNL-02 -01 and -03		

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 5	Date: 06/17/2013		
Direction Photo Taken: North, northeast			
Description: P6170026 Looking NNE across 2013FNL-06 -05 and -07 Duplicated previous (photograph)			

Photo No. 6	Date: 06/17/2013	
Direction Photo Taken:		
Description: P6170027 Looking ESE across 2013FNL-04 -01 -05 and -08		

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 7	Date: 06/17/2013		
Direction Photo Taken: East, southeast			
Description: P6170028 Looking ESE across 2013FNL-04 -01 -05 and -08 Duplicated previous (photograph)			

Photo No. 8	Date: 09/30/2013	
Direction Photo Taken: West		
Description: P9300002 Looking W at 2013BSS-02 and -01		

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 9	Date: 09/30/2013		
Direction Photo Taken: ~North			
Description: P9300003 Looking N at 2013BSS-04			

Photo No. 10	Date: 09/30/2013	
Direction Photo Taken: ~Northwest		
Description: P9300004 Looking NW at 2013BSS-05.		

Client Name: DuPont		Site Location: Montague Michigan	Project No. 18984840
Photo No. 11	Date: 09/30/2013		
Direction Photo Taken: North			
Description: P9300005 Looking N toward 2013BSS-09			

Photo No.	Date:	
Direction Photo Taken:		
Description:		

Appendix B

Boring Logs – Former Waste Neoprene Landfill



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-01**

SHEET 1 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-01\2013FNL-01.DWG - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ: Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project:	Dupont - Montague	Project No.:						18984840			
Location:	Montague, MI	Elevation:			NM				Coordinates (N,E):		
Drilling Company:	Boart Longyear	Date Started:				06/20/13		Date Finished:			06/20/13
Drilling Equipment:	Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):			Rock Depth (ft bgs):			Completion Depth (ft bgs):			15.0
Drilling Method:	Geoprobe - DPT	Water Level (ft bgs)						Number of Samples			
Drill Bit Type/Diameter:	2" ID X 5' Macrocore	First Encount.:	At Completion:	Well Installed?		No		Dist.:	Undist.:		Core:
Sampler Type/Diameter:	2" OD x 5' Acetate Liner	Driller:				Andrew Roberts		Field Logger:		Heather Herr	
Boring Location Description:	Former Neoprene Landfill	Reviewed by:				George Gregory					

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: FILL - LIME "FILL", light bluish gray (2 Gley 8/1) with trace pale brown (10YR 7/3) Mottling; moist; trace fine to coarse grained sand, dense.		4.5			0 ft Begin drilling at 10:25. Background PID: 0.0ppm
					0.0		
			2				
		Fill: SAND "FILL", about 100% fine subrounded to subangular sand; light brownish yellow (10YR 6/4) with 10% yellowish brown (10YR 6/8) Mottling; moist; no cementation; poorly graded; medium dense; trace fines; trace medium to coarse sand; trace lime stringers.			0.0		3 ft Collect Sample at 3'-5' 2013FNL-01 (3.5') at 10:50
		SAND (SP), about 100% fine subrounded to subangular sand; light brownish yellow (10YR 6/4) with 10% yellowish brown (10YR 6/8) Mottling; moist; no cementation; poorly graded; medium dense; trace fines; trace medium to coarse sand.	4				
				3.0	0.0		
			6				
					0.0		
			8				
					N/A		
			10	5.0			
		Mottling grades out.			0.0		



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LOG OF BORING 2013FNL-01

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
			14		0.0		

End of Boring at 15' BGS.

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-02**

SHEET 1 OF 2

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-02 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT - Printed: 8/15/13

Project: Dupont - Montague		Project No.: 18984840	
Location: Montague, MI		Elevation: NM	Coordinates (N,E):
Drilling Company: Boart Longyear		Date Started: 06/20/13	Date Finished: 06/20/13
Drilling Equipment: Geoprobe with 5' x 2" ID Macrocore		Refusal Depth (ft bgs):	Rock Depth (ft bgs): Completion Depth (ft bgs): 15.0
Drilling Method: Geoprobe - DPT		Water Level (ft bgs)	
Drill Bit Type/Diameter: 2" ID X 5' Macrocore		First Encount.:	At Completion:
Sampler Type/Diameter: 2" OD x 5' Acetate Liner		Well Installed? No	Dist.: 3
		Undist.: 0	Core: 0
Boring Location Description: Former Neoprene Landfill		Driller: Andrew Roberts	
		Field Logger: Heather Herr	
		Reviewed by: George Gregory	

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: FILL "FILL", light bluish gray (2 gley 8/1) with yellowish brown (10YR 5/8) lamina; moist; interbedded sand and lime; lime is dense with trace to few fine to medium grained, subrounded to subangular gravel. Sand is fine grained, subrounded to subangular with trace black (10YR 2/1) organic staining; medium dense to dense with trace lime..		5.0			0 ft Begin drilling at 14:40. Background PID: 0.0ppm.
		Fill: SAND "FILL", about 95% fine subrounded to subangular sand; about 5% fines; yellowish brown (10YR 5/8); moist; trace organics (rootlets); trace black (10YR 2/1) staining; medium dense; no cementation; poorly graded.	2		0.0		
		Fill: SILTY SAND "FILL", about 85% fine subrounded to subangular sand; about 15% fines; very dark grayish brown (10 YR 3/2) with yellowish brown (10 YR 5/8) Mottling; moist; medium dense to dense; no cementation; poorly graded. From 3.9'-4.0' rubber-like debris and fabric debris present.	4		0.0		4 ft 1st attempt, refusal at 4' bgs with 3.2' recovery. 2nd attempt refusal @ 4' bgs with 3.0' recovery. 3rd attempt successful.
		Fill: SAND "FILL", about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; reworked native; trace medium and coarse sand; medium dense to dense; trace rubber debris; no cementation; trace fines.	6	4.1	0.0		
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; dense; no cementation; poorly graded; trace organics.			0.0		6 ft Collect Sample from 6'-8': 2013FNL-02 (6'-8') at 13:25.
			8		0.0		
			10	4.0	0.0		
					0.0		



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LOG OF BORING 2013FNL-02

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
			14		0.0		
					0.0		

End of Boring at 15' BGS.

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING
2013FNL-03

SHEET 1 OF 1

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-03\2013FNL-03.DWG - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT - Printed: 8/15/13

Project:	Dupont - Montague	Project No.:						18984840																																	
Location:	Montague, MI	Elevation:						NM						Coordinates (N,E):																											
Drilling Company:	Boart Longyear	Date Started:						06/20/13						Date Finished:						06/20/13																					
Drilling Equipment:	Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):												Rock Depth (ft bgs):												Completion Depth (ft bgs):						10.0									
Drilling Method:	Geoprobe - DPT	Water Level (ft bgs)												Number of Samples																											
Drill Bit Type/Diameter:	2" ID X 5' Macrocore	First Encount.:				At Completion:				Well Installed?				No				Dist.:				3				Undist.:				0				Core:				0			
Sampler Type/Diameter:	2" OD x 5' Acetate Liner	Driller:						Andrew Roberts						Field Logger:						Heather Herr																					
Boring Location Description:	Former Neoprene Landfill	Reviewed by:						George Gregory																																	

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: FILL - LIME "FILL", light bluish gray (2 gley 8/1); dry; soft.		3.0			0 ft Begin drilling at 08:42. Background PID: 0.0 ppm.
		Fill: SILTY SAND "FILL", about 85% fine subrounded to subangular sand; about 15% fines; dark grayish brown (10YR 4/2); moist; no cementation; trace black (10YR 2/1) staining; loose; few organics.			0.0		1 ft Collect sample from 1'-3': 2013FNL-03 (1'-3') at 09:00.
		SAND (SP), about 100% fine subrounded to subangular sand; brownish yellow (10YR 6/6); moist; trace fines; no cementation; loose to medium dense; poorly graded.	2				
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; no cementation; medium dense; poorly graded.			0.1		
			4	3.3			
					0.1		
			6				
					0.0		
			8	2.0			
					0.0		
							
							
			10				

End of Boring at 10' BGS.

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-04**

SHEET 1 OF 2

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-04 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project:	Dupont - Montague	Project No.:	18984840		
Location:	Montague, MI	Elevation:	NM	Coordinates (N,E):	
Drilling Company:	Boart Longyear	Date Started:	06/20/13	Date Finished: 06/20/13	
Drilling Equipment:	Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):		Rock Depth (ft bgs):	Completion Depth (ft bgs): 15.0
Drilling Method:	Geoprobe - DPT	Water Level (ft bgs)		Number of Samples	
Drill Bit Type/Diameter:	2" ID X 5' Macrocore	First Encount.:	At Completion:	Well Installed? No	Dist.: 3 Undist.: 0 Core: 0
Sampler Type/Diameter:	2" OD x 5' Acetate Liner	Driller:	Andrew Roberts		Field Logger: Heather Herr
Boring Location Description:	Former Neoprene Landfill				
	Reviewed by: George Gregory				

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: LIME "FILL", about 5% fine to medium, gravel; light bluish gray (2 gley 8/1) with trace yellowish brown (10YR 5/8) Mottling; moist; trace fine grained sand; dense.		4.0			0 ft Begin drilling at 16:03. Background PID: 0.0 ppm.
					0.0		
		Wet at 3'.	2				
			4		0.0		
		SAND (SP), about 100% fine subrounded to subangular sand; yellowish brown (10YR 5/8); moist; weak cementation; dense; trace rootlets. AT 5.5' 20% light yellowish brown (10YR 6/4) mottling grades in. At 6' trace fine gravel.		4.0	0.0		6 ft Collect Sample from 6'-8' : 2013FNL-04 (6'-8') at 16:15.
			6				
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; weak cementation; dense to medium dense.			0.0		
			8				
		At 9' trace medium grained sand.			0.0		
			10	4.0			
					0.0		



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LOG OF BORING 2013FNL-04

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
			14		0.0		
					0.0		

End of Boring at 15' BGS..

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-05**

SHEET 1 OF 2

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-05 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague	Project No.: 18984840		
Location: Montague, MI	Elevation: NM	Coordinates (N,E):	
Drilling Company: Boart Longyear	Date Started: 06/20/13	Date Finished: 06/20/13	
Drilling Equipment: Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):	Rock Depth (ft bgs):	Completion Depth (ft bgs): 15.0
Drilling Method: Geoprobe - DPT	Water Level (ft bgs)		Number of Samples
Drill Bit Type/Diameter: 2" ID X 5' Macrocore	First Encount.:	At Completion:	Well Installed? No
Sampler Type/Diameter: 2" OD x 5' Acetate Liner	Driller: Andrew Roberts	Field Logger: Heather Herr	Dist.: 3
Boring Location Description: Former Neoprene Landfill	Reviewed by: George Gregory		

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: LIME "FILL", about 20% fine to coarse subrounded to angular gravel; about 5% fine, sand; light bluish gray (2 gley 8/1) with 10% brown (10YR 5/3) and pale brown (10YR 7/8) Mottling; moist; dense.		4.3			0 ft Begin drilling @ 13:00. Background PID: 0.0 ppm.
		At 2' becomes wet and gravel grades out.	2		0.0		
		SAND (SP), about 95% fine subrounded to subangular sand; about 5% fines; brownish yellow (10YR 6/6); moist; weak cementation; trace organics (rootlets).	4		0.0		
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; weak cementation; trace fines; medium dense to dense; trace organics (rootlets).		3.0	0.0		4 ft Collect sample from 4'-6': 2013FNL-05 (4'-6') and 2013FNL-05 (4'-6')-D at 13:25.
		At 6' trace fine gravel.	6		0.0		
			8		N/A		
			10	3.0			
					0.0		



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LOG OF BORING 2013FNL-05

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template:URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		At 12'-12.25' trace brown (10YR 4/3) laminations (<.5mm thick for 3").	14		0.0		
					0.0		

End of Boring at 15' BGS..

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-06**

SHEET 1 OF 1

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-06 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague		Project No.: 18984840	
Location: Montague, MI		Elevation: NM	Coordinates (N,E):
Drilling Company: Boart Longyear		Date Started: 06/20/13	Date Finished: 06/20/13
Drilling Equipment: Geoprobe with 5' x 2" ID Macrocore		Refusal Depth (ft bgs):	Rock Depth (ft bgs): Completion Depth (ft bgs): 10.5
Drilling Method: Geoprobe - DPT		Water Level (ft bgs)	
Drill Bit Type/Diameter: 2" ID X 5' Macrocore		First Encount.:	At Completion:
Sampler Type/Diameter: 2" OD x 5' Acetate Liner		Well Installed? No	Dist.: 3
		Undist.: 0	Core: 0
Boring Location Description: Former Neoprene Landfill		Driller: Andrew Roberts	
		Field Logger: Heather Herr	
		Reviewed by: George Gregory	

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: LIME "FILL", about 15% fine, sand; light bluish gray (2 gley 8/1) with 15% brown (10YR 5/3) Mottling; moist; Dense; wet only at surface; trace coarse sand; trace fine gravel. At 0.5'-0.8' 40% sand.		4.8			0 ft Begin drilling at 13:45. Background PID: 0.0 ppm. Move boring 3' west, refusal at 1st attempt at 4' bgs. Move boring 3' south west, refusal at 2nd attempt at 8' bgs. Move boring 3' north, refusal at 3rd attempt at 8' bgs. Move boring 3' east.
		At 2.8'-3.4' 50% sand/50% Lime.	2		0.0		
		Fill: SAND "SP", about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; weak cementation; trace organics (rootlets); trace black (10YR 2/1) staining in streaks; medium dense. 3.4'-4.0' 40% brownish yellow (10YR 6/6) mottling grades in.	4		0.0		
		Fill: LIME AND SAND "FILL", about 50% fine subrounded to subangular sand; light bluish gray (2 gley 8/1) with light yellowish brown (10YR 6/4) with trace black (10YR 2/1) staining; moist; medium dense; trace rubber debris.	6	1.5	0.0		5 ft Collect sample from 5'-10.5' : 2013FNL-06 (5'-10.5') at 15:50.
		Fill: SAND "FILL", yellowish brown (10YR 5/8); dry; fine to coarse sand sized rubber like debris; dense. At 6.4' becomes dark reddish brown (5YR 3/2). At 6.5'-10' little recovery - inferred FILL as above and below.	8		N/A		
		Fill: SAND AND RUBBER DEBRIS "FILL", about 10% fine subrounded to subangular gravel; about 10% fine subrounded to subangular sand; white, dark gray (10YR 4/1) and yellowish brown (10YR 5/8); moist; dense.	10	0.5	0.0		
		End of Boring at 10.5' BGS. Refusal..					10.5 ft Refusal @ 10.5' bgs on rubber/neoprene fill.
		Borehole backfilled with bentonite pellets					



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-07**

SHEET 1 OF 2

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-07 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project:	Dupont - Montague	Project No.:						18984840																	
Location:	Montague, MI	Elevation:				NM				Coordinates (N,E):															
Drilling Company:	Boart Longyear	Date Started:				06/20/13				Date Finished:				06/20/13											
Drilling Equipment:	Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):								Rock Depth (ft bgs):								Completion Depth (ft bgs):				15.0			
Drilling Method:	Geoprobe - DPT	Water Level (ft bgs)								Number of Samples															
Drill Bit Type/Diameter:	2" ID X 5' Macrocore	First Encount.:		At Completion:		Well Installed?		No		Dist.:		3		Undist.:		0		Core:		0					
Sampler Type/Diameter:	2" OD x 5' Acetate Liner	Driller:				Andrew Roberts				Field Logger:				Heather Herr											
Boring Location Description:	Former Neoprene Landfill	Reviewed by:				George Gregory																			

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: LIME WITH SAND "FILL", fine to coarse subrounded to subangular sand; light bluish gray (2 gley 8/1) with brownish yellow (10YR 4/2) lamina; moist; dense; 10% coarse sand; trace fine gravel; interbedded sand and lime.		4.3			0 ft Begin drilling at 09:25. Background PID: 0.0 ppm.
		At 2' - 1" seam of brownish green coarse sand.	2		0.0		
		SILTY SAND (SM), about 85% fine subrounded to subangular sand; about 15% fines; dark grayish brown with 5-10% black (10YR 2/1) staining; moist; weak cementation; medium dense; few organics.			0.0		
		SAND (SP), about 100% fine subrounded to subangular sand; brownish yellow (10YR 6/6) with trace black (10YR 2/1) staining; moist; weak cementation; trace fines; medium dense.	4				3.5 ft Collect sample 3.5'-5.5': 2013FNL-07 (3.5'-5.5') and MS/MSD sample at 09:45.
				4.0	0.0		
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; weak cementation; trace medium sand; medium dense.	6				
					0.0		
			8				
					0.0		
			10	3.5			
					0.0		



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING 2013FNL-07

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
			14		0.0		
					0.0		

End of Boring at 15' BGS.

Borehole backfilled with bentonite pellets



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

**LOG OF BORING
2013FNL-08**

SHEET 1 OF 2

Report: URS-CHICAGO - Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\2013FNL-08 - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ - Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project:	Dupont - Montague	Project No.:						18984840			
Location:	Montague, MI	Elevation:			NM				Coordinates (N,E):		
Drilling Company:	Boart Longyear	Date Started:				06/20/13		Date Finished:			06/20/13
Drilling Equipment:	Geoprobe with 5' x 2" ID Macrocore	Refusal Depth (ft bgs):			Rock Depth (ft bgs):			Completion Depth (ft bgs):			15.0
Drilling Method:	Geoprobe - DPT	Water Level (ft bgs)						Number of Samples			
Drill Bit Type/Diameter:	2" ID X 5' Macrocore	First Encount.:	At Completion:	Well Installed?		No		Dist.:	Undist.:		Core:
Sampler Type/Diameter:	2" OD x 5' Acetate Liner	Driller:				Andrew Roberts		Field Logger:		Heather Herr	
Boring Location Description:	Former Neoprene Landfill	Reviewed by:				George Gregory					

ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
		Fill: LIME "FILL", light bluish gray (2 gley 8/1) with trace pale brown mottling (10YR 7/8); wet; trace fine to coarse grained sand; dense.		4.2			0 ft Begin drilling at 11:05. Background PID: 0.0 ppm.
			2		0.0		
		Fill: SAND "SP", about 95% fine to medium subrounded to subangular sand; about 5% fines; dark grayish brown (10YR 4/2); wet; weak cementation; medium dense; trace lime debris; organics (rootlets); reworked native.			0.0		
		SAND (SP), about 95% fine subrounded to subangular sand; about 5% fines; brownish yellow (10YR 6/6); moist; weak cementation; medium dense; trace organics.	4				
		At 3.4' light yellowish brown (10YR 6/4) grades in.					
		SAND (SP), about 100% fine subrounded to subangular sand; light yellowish brown (10YR 6/4); moist; weak cementation; medium dense; trace fines; trace organics.		4.0	0.0		4 ft Collect sample from 4'-6': 2013FNL-08 (4'-6') at 11:30.
			6		0.0		
			8		0.0		
			10	4.3			
					0.0		



CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING 2013FNL-08

SHEET 2 OF 2

Report: URS-CHICAGO: Project File: C:\USERS\HEATHER_HERR\DESKTOP\FILES TO SORT\USB DRIVE #3\DUPONT\TDUPONT - MONTAGUE, MINEOPRENE LANDFILL BORINGS 2013.GPJ; Data Template: URS-CHICAGO.GDT Printed: 8/15/13

Project: Dupont - Montague				Project No.: 18984840			
Location: Montague, MI				Elevation: NM		Coordinates (N,E):	
ELEV	Graphic	DESCRIPTION	SAMPLES		PID Direct (ppm)	PID Head space (ppm)	REMARKS
			DEPTH	Rec (ft)			
			14		0.0		
					0.0		

End of Boring at 15' BGS.

Borehole backfilled with bentonite pellets

Appendix C

Field Notes - June 2013

6/20/13

0645 ARRIVE ONSITE

0700 PSA, TAILGATE SITE ORIENTATION

0730 LOAD VEHICLE W/ EQUIPMENT

PERSONNEL: STEVE (DUPONT/URS); GEORGE GREGORY (URS); HEATHER HERR (URS); BART LONGYEAR (ANDREW ROBERTS)

SCOPE: GEOPROBE IN LANDFILL; WATER SAMPLING DOWN NEAR CREEK
PPE: LEVEL D

0745 BEGIN SET UP OF GEOPROBE EQUIPMENT

0805 GEOPROBE WOULD NOT ~~SET~~ ABLE TO BE USED; EQUIPMENT SINKING INTO GROUND & TEMPORARILY STUCK

NOMENCLATURE: "YEAR" FNL - BORING #

0815 BEGIN PREP OF GEOPROBE 54-LT

- SET UP PID W/ 11.7 EV Lamp. Ambient Air @ plant reading Between 0.0 - 0.5 ppm. REZERO INSTRUMENT NOT NECESSARY, WILL NOTE ON BORING LOG BACKGROUND PID READINGS

0820 INTRODUCE MYSELF TO ONSITE PERSONNEL: OLIVIA. MAKE HER AWARE OF SITE WORK

0842 BEGIN GEOPROBING @ 2013 FNL-03

0900 COLLECT SAMPLE 2013 FNL-03 (1'-3') IN NATIVE MATERIAL

0925 BEGIN GEOPROBE @ 2013 FNL-07

0945 COLLECT SAMPLE 2013 FNL-07 (3.5-5.5)' & MS & MSD FROM LOCATION

1025 BEGIN GEOPROBING @ 2013 FNL-01 MOVE BORING ~4' SE

1050 COLLECT 2013 FNL-01 (3'-5') IN NATIVE MATERIAL

1105 BEGIN GEOPROBING @ 2013 FNL-08

1130 COLLECT 2013 FNL-08 (4'-6') IN NATIVE MATERIAL

1200 LUNCH

1300 RESUME GEOPROBING @ 2013 FNL-05

1325 COLLECT 2013 FNL-05 (4'-6') & 2013 FNL-05-D IN NATIVE MATERIAL

1345 BEGIN GEOPROBING @ 2013 FNL-06

1350 - REFUSAL @ 4' ON WOOD; MOVE BORING 3' WEST, ATTEMPT AGAIN

1400 - REFUSAL @ 10.5' ON RUBBER DEBRIS @ 3' W. MOVE 3' SW

1415 - REFUSAL @ 8.0' BGS ON RUBBER DEBRIS @ 3' SW. MOVE 3' N, ATTEMPT

1430 - REFUSAL @ 8.0' BGS ON RUBBER DEBRIS

- NO SAMPLE TAKEN BECAUSE WE CAN'T GET BELOW RUBBER-LIKE DEBRIS, BAG UP INTERVAL COLLECTED 5-10.5' FOR VISUAL

1440 BEGIN DRILLING @ 2013 FNL-02

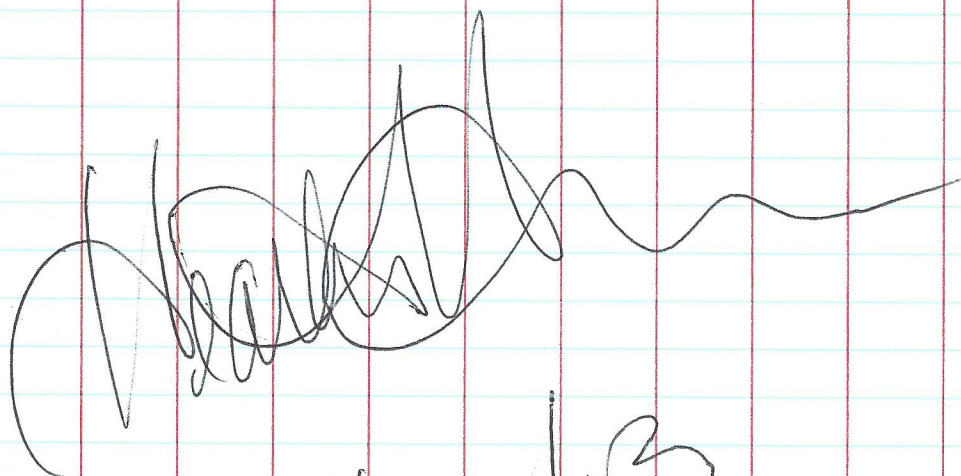
1457 Refusal @ 4' BGS; MOVE OVER 3' SW, ATTEMPT AGAIN

1505 Refusal @ 4' BGS; MOVE OVER 3' N, ATTEMPT AGAIN

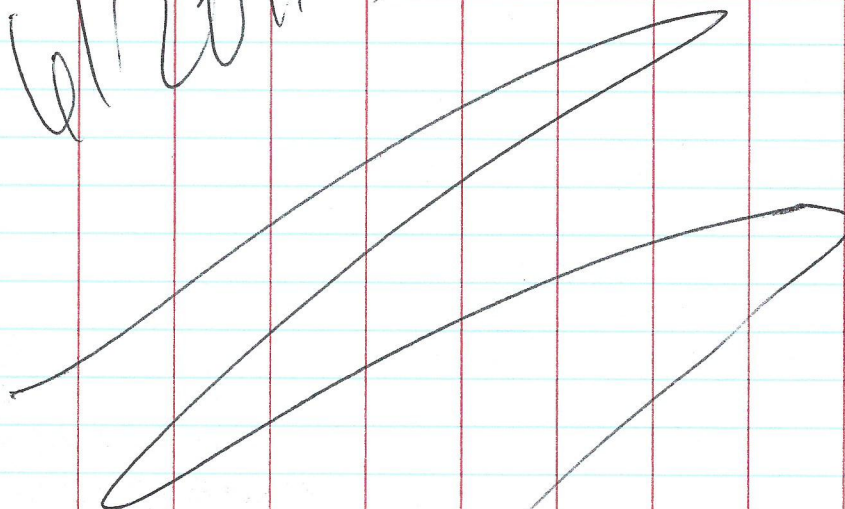
pg 2 of 2
H. HERR

6/20/13

- 1524 FINISH 3RD ATTEMPT TO 15' BGS, COLLECT SAMPLE 2013FNL-02 (6'-8') @ 1525
1550 FINISH COLLECT SAMPLE 2013FNL-06 (5-10.5) OF WASTE MATERIAL
PER GEORGE GREGORY
- 1603 BEGIN GEOPROBE @ 2013FNL-04
1615 COLLECT 2013FNL-04 (6-8) FROM NATIVE MATERIAL
1620 BEGIN CLEAN UP OF GEOPROBE EQUIPMENT
- CLEAN UP WORK AREA
- 1640 COLLECT EQUIPMENT BLANK EB-0613-FNL-06 2013-01
1700 BEGIN PACKING COOLERS FOR SHIPMENT
1805 FINISH PACKING SOIL COOLERS
1815 DEPART SITE FOR FEDEX



6/20/13



Appendix D

Laboratory Analytical Report – Remedial Investigation Former Neoprene Landfill (FNL) 6/13

**ADQM DATA REVIEW
NARRATIVE**

Site **MTG/ Montague**

Project **Remedial Investigation Former Neoprene Landfill (FNL) 6/13**

Project Reviewer **Dyana Sagges**

Sampling Date **6/20/13**

Analytical Protocol

LABORATORY	ANALYSIS	METHOD
Lancaster Labs, Lancaster PA		
	Select List VOA + TICs Library Search 1,1-Dichloro-1,2,2,2-tetrafluoroethane (CFC-114a), 1,1,-Dichloro-2,2,2-trifluoroethane (HCFC-123), Chlorofluoromethane (Freon 22) Neoprene Compound Library Search Chloroprene, 2,3-Dichloro-1,3-butadiene, 3,4-Dichloro-1-butene, 1,3-Dichloro-2-butene, 2,3,4-Trichloro-1-butene, cis-1,2,3-Trichloro-2-butene, trans-1,2,3-Trichloro-2-butene	SW-846 8260B
	Select List BNA	SW-846 8270C
	Acetaldehyde	SW-846 8315A
	Select List Metals- Total Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Tin, Vanadium, Zinc Antimony, Arsenic, Lead, Nickel, Selenium, Silver, Thallium	SW-846 6010B SW-846 6020

	Mercury	SW-846 7471A mod soil/7470A water
	Ammonia	SM 4500-NH3 B/C mod- 1997
	Chloride, Fluoride, Sulfate	EPA 300.0
	Cyanide, Total	SW-846 9012A
	Moisture	SM 2540 G-1997
TestAmerica- Canton, North Canton, OH	Sulfide	SW-846 9034
	Solids	EPA 160.3

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on 6/21/13 at Lancaster Labs and TestAmerica-Canton.
- The field samplers did not fill in their names on the chain of custody forms.

Data Review

The electronic data submitted for this project was reviewed via the DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification. Some of the data was qualified due to detections in the equipment blank, detections in the method blank, matrix spike/matrix spike duplicate that did not meet criteria, LCS/LCSD that did not meet criteria and results detected between the method detection limit and the practical quantitation limit.

- In the BNA samples, 3-methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The results reported for 4-methylphenol represents the combined total of both compounds.
- In the BNA samples, N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.
- Ammonia reporting limit for some samples is elevated due to interference from the sample matrix.
- A request was made by the lab on June 28, 2013 to raise the soil MDL of Acetaldehyde from 400 ug/kg to 600 ug/kg.
- Some changes were made to the field sample ids on the Lancaster and TestAmerica chain of custody forms. The new database does not allow for top and bottom depths in the sample id format. The depth range (xx-xx) will be seen on the chain of custody and the lab report. It will

not be seen in the sample id in tables created from the database. The information is captured in another field in the database. For Lancaster data, Equipment blank sample id EB-13-FNL-062013, will be seen as EB-062013-FNL in the lab report and the database. For TestAmerica Equipment Blank sample id EB-0613-FNL-062013 will be seen as EB-062013-FNL in the database.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the DuPont CRG Envista database and run through an automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria; checked for blank contamination; assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes; laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPDs between these spikes; assessed against RPDs between laboratory replicates (inorganics); and assessed against surrogate spike recoveries (organics). The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-01-3	06/20/2013	7102819	TIN	1.59	MG/KG	MDL	0.221	10.0	B	6010B		3050B
RI0613-2013FNL-02-6	06/20/2013	7102820	TIN	1.60	MG/KG	MDL	0.220	10.0	B	6010B		3050B
RI0613-2013FNL-03-1	06/20/2013	7102821	TIN	1.74	MG/KG	MDL	0.222	10.1	B	6010B		3050B
RI0613-2013FNL-04-6	06/20/2013	7102822	TIN	1.65	MG/KG	MDL	0.222	10.1	B	6010B		3050B
RI0613-2013FNL-05-4	06/20/2013	7102823	TIN	1.67	MG/KG	MDL	0.240	10.9	B	6010B		3050B
RI0613-2013FNL-05-4-D	06/20/2013	7102824	TIN	1.53	MG/KG	MDL	0.223	10.1	B	6010B		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	TIN	1.92	MG/KG	MDL	0.254	11.6	B	6010B		3050B
RI0613-2013FNL-07-3.5	06/20/2013	7102826	TIN	1.53	MG/KG	MDL	0.226	10.3	B	6010B		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	TIN	1.60	MG/KG	MDL	0.224	10.2	B	6010B		3050B

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-05-4	06/20/2013	7102823	ACETALDEHYDE	6800	UG/KG	MDL	6800	11000	UJ	8315A		8315A
RI0613-2013FNL-03-1	06/20/2013	7102821	ACETALDEHYDE	600	UG/KG	MDL	600	1000	UJ	8315A		8315A

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-08-4	06/20/2013	7102830	FLUORIDE	0.82	MG/KG	MDL	0.82	1.0	UJ	300.0		300.0
RI0613-2013FNL-07-3.5	06/20/2013	7102826	FLUORIDE	0.83	MG/KG	MDL	0.83	1.0	UJ	300.0		300.0
RI0613-2013FNL-05-4-D	06/20/2013	7102824	FLUORIDE	0.83	MG/KG	MDL	0.83	1.0	UJ	300.0		300.0
RI0613-2013FNL-06-5	06/20/2013	7102825	FLUORIDE	0.96	MG/KG	MDL	0.96	1.2	UJ	300.0		300.0
RI0613-2013FNL-04-6	06/20/2013	7102822	FLUORIDE	0.83	MG/KG	MDL	0.83	1.0	UJ	300.0		300.0
RI0613-2013FNL-05-4	06/20/2013	7102823	FLUORIDE	0.90	MG/KG	MDL	0.90	1.1	UJ	300.0		300.0
RI0613-2013FNL-02-6	06/20/2013	7102820	FLUORIDE	0.82	MG/KG	MDL	0.82	1.0	UJ	300.0		300.0

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-01-3	06/20/2013	7102819	ARSENIC	0.578	MG/KG	MDL	0.0842	0.401	J	6020		3050B
RI0613-2013FNL-03-1	06/20/2013	7102821	ARSENIC	1.82	MG/KG	MDL	0.0850	0.405	J	6020		3050B
RI0613-2013FNL-03-1	06/20/2013	7102821	NICKEL	4.56	MG/KG	MDL	0.0769	0.405	J	6020		3050B
RI0613-2013FNL-02-6	06/20/2013	7102820	ARSENIC	0.505	MG/KG	MDL	0.0840	0.400	J	6020		3050B
RI0613-2013FNL-01-3	06/20/2013	7102819	NICKEL	1.39	MG/KG	MDL	0.0762	0.401	J	6020		3050B
RI0613-2013FNL-02-6	06/20/2013	7102820	NICKEL	1.18	MG/KG	MDL	0.0760	0.400	J	6020		3050B
RI0613-2013FNL-04-6	06/20/2013	7102822	ARSENIC	0.758	MG/KG	MDL	0.0849	0.404	J	6020		3050B
RI0613-2013FNL-05-4	06/20/2013	7102823	ARSENIC	0.603	MG/KG	MDL	0.0917	0.437	J	6020		3050B
RI0613-2013FNL-05-4-D	06/20/2013	7102824	NICKEL	1.19	MG/KG	MDL	0.0771	0.406	J	6020		3050B
RI0613-2013FNL-04-6	06/20/2013	7102822	NICKEL	2.02	MG/KG	MDL	0.0768	0.404	J	6020		3050B
RI0613-2013FNL-05-4	06/20/2013	7102823	NICKEL	1.45	MG/KG	MDL	0.0829	0.437	J	6020		3050B
RI0613-2013FNL-05-4-D	06/20/2013	7102824	ARSENIC	0.691	MG/KG	MDL	0.0852	0.406	J	6020		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	NICKEL	2.56	MG/KG	MDL	0.0878	0.462	J	6020		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	ARSENIC	0.544	MG/KG	MDL	0.0971	0.462	J	6020		3050B
RI0613-2013FNL-07-3.5	06/20/2013	7102826	NICKEL	1.82	MG/KG	MDL	0.0780	0.410	J	6020		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	NICKEL	1.37	MG/KG	MDL	0.0772	0.406	J	6020		3050B
RI0613-2013FNL-07-3.5	06/20/2013	7102826	ARSENIC	0.631	MG/KG	MDL	0.0862	0.410	J	6020		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	ARSENIC	0.567	MG/KG	MDL	0.0853	0.406	J	6020		3050B

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-02-6	06/20/2013	7102820	ACETALDEHYDE	1300	UG/KG	MDL	620	1000	J	8315A		8315A
RI0613-2013FNL-06-5	06/20/2013	7102825	ACETALDEHYDE	1800	UG/KG	MDL	720	1200	J	8315A		8315A
RI0613-2013FNL-08-4	06/20/2013	7102830	ACETALDEHYDE	660	UG/KG	MDL	620	1000	J	8315A		8315A
RI0613-2013FNL-07-3.5	06/20/2013	7102826	ACETALDEHYDE	810	UG/KG	MDL	620	1000	J	8315A		8315A
RI0613-2013FNL-05-4-D	06/20/2013	7102824	ACETALDEHYDE	950	UG/KG	MDL	610	1000	J	8315A		8315A
RI0613-2013FNL-04-6	06/20/2013	7102822	ACETALDEHYDE	690	UG/KG	MDL	620	1000	J	8315A		8315A
RI0613-2013FNL-01-3	06/20/2013	7102819	ACETALDEHYDE	710	UG/KG	MDL	600	1000	J	8315A		8315A

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-03-1	06/20/2013	7102821	FLUORIDE	2.2	MG/KG	MDL	0.83	1.0	J	300.0		300.0
RI0613-2013FNL-07-3.5	06/20/2013	7102826	TETRACHLOROETHE NE	21	UG/KG	MDL	1	5	J	8260B		5035A
RI0613-2013FNL-01-3	06/20/2013	7102819	FLUORIDE	1.0	MG/KG	MDL	0.83	1.0	J	300.0		300.0

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-08-4	06/20/2013	7102830	CHROMIUM	1.43	MG/KG	MDL	0.163	1.52	J	6010B		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	COBALT	0.501	MG/KG	MDL	0.101	0.508	J	6010B		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	COPPER	0.693	MG/KG	MDL	0.295	1.02	J	6010B		3050B
RI0613-2013FNL-08-4	06/20/2013	7102830	BENZO(B)FLUORANT HENE	4	UG/KG	MDL	3	18	J	8270C		3546
RI0613-2013FNL-08-4	06/20/2013	7102830	ACETONE	9	UG/KG	MDL	7	21	J	8260B		5035A
RI0613-2013FNL-06-5	06/20/2013	7102825	SELENIUM	0.118	MG/KG	MDL	0.116	0.462	J	6020		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	BERYLLIUM	0.111	MG/KG	MDL	0.0774	0.578	J	6010B		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	COBALT	0.506	MG/KG	MDL	0.114	0.578	J	6010B		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	ANTIMONY	0.120	MG/KG	MDL	0.0994	0.231	J	6020		3050B
RI0613-2013FNL-07-3.5	06/20/2013	7102826	1,1,1-TRICHLOROETHANE	1	UG/KG	MDL	1	5	J	8260B		5035A
RI0613-2013FNL-05-4-D	06/20/2013	7102824	CHROMIUM	1.31	MG/KG	MDL	0.162	1.52	J	6010B		3050B
RI0613-2013FNL-05-4-D	06/20/2013	7102824	COPPER	0.720	MG/KG	MDL	0.294	1.01	J	6010B		3050B
RI0613-2013FNL-06-5	06/20/2013	7102825	TOLUENE	2	UG/KG	MDL	1	6	J	8260B		5035A
RI0613-2013FNL-06-5	06/20/2013	7102825	CHLOROPRENE	1	UG/KG	MDL	1	6	J	8260B		5035A
RI0613-2013FNL-06-5	06/20/2013	7102825	CYANIDE	260	UG/KG	MDL	210	590	J	9012A		9012A
RI0613-2013FNL-06-5	06/20/2013	7102825	BENZENE	0.8	UG/KG	MDL	0.6	6	J	8260B		5035A
RI0613-2013FNL-06-5	06/20/2013	7102825	1,1,1-TRICHLOROETHANE	5	UG/KG	MDL	1	6	J	8260B		5035A
RI0613-2013FNL-05-4	06/20/2013	7102823	COBALT	0.536	MG/KG	MDL	0.108	0.546	J	6010B		3050B
RI0613-2013FNL-05-4	06/20/2013	7102823	COPPER	0.784	MG/KG	MDL	0.317	1.09	J	6010B		3050B
RI0613-2013FNL-04-6	06/20/2013	7102822	ACETONE	14	UG/KG	MDL	7	21	J	8260B		5035A
RI0613-2013FNL-03-1	06/20/2013	7102821	PYRENE	4	UG/KG	MDL	3	18	J	8270C		3546
RI0613-2013FNL-02-6	06/20/2013	7102820	CHROMIUM	1.33	MG/KG	MDL	0.160	1.50	J	6010B		3050B
RI0613-2013FNL-02-6	06/20/2013	7102820	COBALT	0.443	MG/KG	MDL	0.0990	0.500	J	6010B		3050B

Site: Montague

Sampling Program: REM INVESTIGATION FNL 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013FNL-03-1	06/20/2013	7102821	THALLIUM	0.0491	MG/KG	MDL	0.0303	0.101	J	6020		3050B
RI0613-2013FNL-03-1	06/20/2013	7102821	BENZO(B)FLUORANT HENE	4	UG/KG	MDL	3	18	J	8270C		3546
RI0613-2013FNL-03-1	06/20/2013	7102821	MERCURY	0.0117	MG/KG	MDL	0.0100	0.100	J	7471A		7471A MOD.
RI0613-2013FNL-03-1	06/20/2013	7102821	BERYLLIUM	0.101	MG/KG	MDL	0.0678	0.506	J	6010B		3050B
RI0613-2013FNL-03-1	06/20/2013	7102821	SELENIUM	0.129	MG/KG	MDL	0.101	0.405	J	6020		3050B
RI0613-2013FNL-02-6	06/20/2013	7102820	ACETONE	17	UG/KG	MDL	7	21	J	8260B		5035A
EB-062013-FNL	06/20/2013	7102831	ACETALDEHYDE	26	UG/L	MDL	20	60	J	8315A		8315A
RI0613-2013FNL-01-3	06/20/2013	7102819	ACETONE	19	UG/KG	MDL	8	24	J	8260B		5035A

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 17, 2013

Project: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Submittal Date: 06/21/2013

Group Number: 1398865

PO Number: LBIO-66380

State of Sample Origin: MI

Client Sample DescriptionLancaster Labs (LL) #

RI0613-2013FNL-01-3 Soil	7102819
RI0613-2013FNL-02-6 Soil	7102820
RI0613-2013FNL-03-1 Soil	7102821
RI0613-2013FNL-04-6 Soil	7102822
RI0613-2013FNL-05-4 Soil	7102823
RI0613-2013FNL-05-4-D Soil	7102824
RI0613-2013FNL-06-5 Soil	7102825
RI0613-2013FNL-07-3.5 Soil	7102826
RI0613-2013FNL-07-3.5 MS Soil	7102827
RI0613-2013FNL-07-3.5 MSD Soil	7102828
RI0613-2013FNL-07-3.5 Dupl Soil	7102829
RI0613-2013FNL-08-4 Soil	7102830
EB-062013-FNL Blank Water	7102831
TB-062013-FNL Blank Water	7102832

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

REVISED

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

REVISED

Sample Description: RI0613-2013FNL-01-3 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102819
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 10:50 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	19 J	8	24	1.17
10237	Benzene	71-43-2	N.D.	0.6	6	1.17
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.17
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	6	1.17
10237	Chlorodifluoromethane	75-45-6	N.D.	2	12	1.17
10237	Chloroform	67-66-3	N.D.	1	6	1.17
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	6	1.17
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	6	1.17
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	6	1.17
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	1.17
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.17
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.17
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.17
10237	Ethylbenzene	100-41-4	N.D.	1	6	1.17
10237	Freon 113	76-13-1	N.D.	2	12	1.17
10237	Methyl Methacrylate	80-62-6	N.D.	1	6	1.17
10237	Methylene Chloride	75-09-2	N.D.	2	6	1.17
10237	Styrene	100-42-5	N.D.	1	6	1.17
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.17
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.17
10237	Toluene	108-88-3	N.D.	1	6	1.17
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	6	1.17
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	6	1.17
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1.17
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1.17
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1.17
10237	Trichloroethene	79-01-6	N.D.	1	6	1.17
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	1.17
10237	Vinyl Chloride	75-01-4	N.D.	1	6	1.17
10237	Xylene (Total)	1330-20-7	N.D.	1	6	1.17

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	18	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	18	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	18	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	18	1
10723	Benzyl alcohol	100-51-6	N.D.	170	510	1
10723	Di-n-butylphthalate	84-74-2	N.D.	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013FNL-01-3 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102819
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 10:50 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	18	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	180	1
10723	Fluoranthene	206-44-0	N.D.	3	18	1
10723	Fluorene	86-73-7	N.D.	3	18	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	18	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	18	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10723	Naphthalene	91-20-3	N.D.	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10723	Di-n-octylphthalate	117-84-0	N.D.	69	170	1
10723	Phenanthrene	85-01-8	N.D.	3	18	1
10723	Pyrene	129-00-0	N.D.	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	710 J	600	1,000	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	4.55	0.0331	0.501	1
06947	Beryllium	7440-41-7	N.D.	0.0672	0.501	1
06949	Cadmium	7440-43-9	N.D.	0.0762	0.501	1
06951	Chromium	7440-47-3	1.85	0.160	1.50	1
06952	Cobalt	7440-48-4	0.524	0.0993	0.501	1
06953	Copper	7440-50-8	1.11	0.291	1.00	1
06969	Tin	7440-31-5	1.59 J	0.221	10.0	1
06971	Vanadium	7440-62-2	3.13	0.130	0.501	1
06972	Zinc	7440-66-6	3.16	0.201	2.01	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0863	0.201	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.578	0.0842	0.401	2
06135	Lead	7439-92-1	1.02	0.0160	0.201	2
06139	Nickel	7440-02-0	1.39	0.0762	0.401	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-01-3 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102819
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 10:50 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	N.D.	0.100	0.401	2
06142	Silver	7440-22-4	N.D.	0.0261	0.100	2
06145	Thallium	7440-28-0	N.D.	0.0301	0.100	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0098	0.0976	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	N.D.	5.2	10.3	1
07332	Fluoride	16984-48-8	1.0 J	0.83	1.0	1
EPA 300.0						
SW-846 9012A						
05895	Total Cyanide	57-12-5	N.D.	0.19	0.52	1
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	439	1,320	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	3.2	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						
SM 2540 G-1997						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 15:14	Chelsea B Stong	1.17
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:02	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:02	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:01	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:02	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 09:01	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:51	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-01-3 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102819
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 10:50 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 08:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:36	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 00:46	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 00:46	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:20	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102819
Sample wt/vol: 4.28 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s04.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 3.2 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.47	6	J
2.	Unknown siloxane	10.21	25	J B
3.	Unknown siloxane	13.56	8	J B
4.				
5. VOCTIC	Total VOC TICs		39	J
6.				
7.				
8.				
9.				
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29.				
30.				

page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-02-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102820
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	17 J	7	21	1.01
10237	Benzene	71-43-2	N.D.	0.5	5	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	1.01
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1.01
10237	Chlorodifluoromethane	75-45-6	N.D.	2	10	1.01
10237	Chloroform	67-66-3	N.D.	1	5	1.01
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1.01
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1.01
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	1.01
10237	Ethylbenzene	100-41-4	N.D.	1	5	1.01
10237	Freon 113	76-13-1	N.D.	2	10	1.01
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	1.01
10237	Methylene Chloride	75-09-2	N.D.	2	5	1.01
10237	Styrene	100-42-5	N.D.	1	5	1.01
10237	Tetrachloroethene	127-18-4	N.D.	1	5	1.01
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	1.01
10237	Toluene	108-88-3	N.D.	1	5	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1.01
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1.01
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.01
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	1.01
10237	Trichloroethene	79-01-6	N.D.	1	5	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	1.01
10237	Vinyl Chloride	75-01-4	N.D.	1	5	1.01
10237	Xylene (Total)	1330-20-7	N.D.	1	5	1.01

A targeted library search was performed yielding the following result

1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	17	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	17	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	17	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	17	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	3	17	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	17	1
10723	Benzyl alcohol	100-51-6	N.D.	170	510	1
10723	Di-n-butylphthalate	84-74-2	N.D.	68	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-02-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102820
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	17	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	170	1
10723	Fluoranthene	206-44-0	N.D.	3	17	1
10723	Fluorene	86-73-7	N.D.	3	17	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	17	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	17	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	N.D.	3	17	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	68	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	N.D.	68	170	1
10723	Phenanthrene	85-01-8	N.D.	3	17	1
10723	Pyrene	129-00-0	N.D.	3	17	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	1,300	620	1,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	2.10	0.0330	0.500	1
06947	Beryllium	7440-41-7	N.D.	0.0670	0.500	1
06949	Cadmium	7440-43-9	N.D.	0.0760	0.500	1
06951	Chromium	7440-47-3	1.33 J	0.160	1.50	1
06952	Cobalt	7440-48-4	0.443 J	0.0990	0.500	1
06953	Copper	7440-50-8	1.42	0.290	1.00	1
06969	Tin	7440-31-5	1.60 J	0.220	10.0	1
06971	Vanadium	7440-62-2	2.44	0.130	0.500	1
06972	Zinc	7440-66-6	2.48	0.200	2.00	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0860	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.505	0.0840	0.400	2
06135	Lead	7439-92-1	0.782	0.0160	0.200	2
06139	Nickel	7440-02-0	1.18	0.0760	0.400	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-02-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102820
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	N.D.	0.100	0.400	2
06142	Silver	7440-22-4	N.D.	0.0260	0.100	2
06145	Thallium	7440-28-0	N.D.	0.0300	0.100	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0102	0.102	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	17.5	5.1	10.2	1
07332	Fluoride	16984-48-8	N.D.	0.82	1.0	1
EPA 300.0						
05895	Total Cyanide	57-12-5	N.D.	0.18	0.49	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	438	1,310	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	2.9	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 15:37	Chelsea B Stong	1.01
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:06	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:07	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:06	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:06	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 09:23	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:00	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-02-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102820
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:25 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 08:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:38	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 01:00	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 01:00	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:21	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102820
Sample wt/vol: 4.97 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/x102s05.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 2.9 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-03-1 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102821
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:00 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	21	7	19	0.93
10237	Benzene	71-43-2	N.D.	0.5	5	0.93
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	0.93
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	0.93
10237	Chlorodifluoromethane	75-45-6	N.D.	2	10	0.93
10237	Chloroform	67-66-3	N.D.	1	5	0.93
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	0.93
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	0.93
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	0.93
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	0.93
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	0.93
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	0.93
10237	Ethylbenzene	100-41-4	N.D.	1	5	0.93
10237	Freon 113	76-13-1	N.D.	2	10	0.93
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	0.93
10237	Methylene Chloride	75-09-2	N.D.	2	5	0.93
10237	Styrene	100-42-5	N.D.	1	5	0.93
10237	Tetrachloroethene	127-18-4	N.D.	1	5	0.93
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	0.93
10237	Toluene	108-88-3	N.D.	1	5	0.93
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	0.93
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	0.93
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	0.93
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	0.93
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	0.93
10237	Trichloroethene	79-01-6	N.D.	1	5	0.93
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	0.93
10237	Vinyl Chloride	75-01-4	N.D.	1	5	0.93
10237	Xylene (Total)	1330-20-7	N.D.	1	5	0.93

A targeted library search was performed yielding the following result

1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	18	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	18	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	18	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	4 J	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	18	1
10723	Benzyl alcohol	100-51-6	N.D.	170	520	1
10723	Di-n-butylphthalate	84-74-2	N.D.	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013FNL-03-1 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102821
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:00 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	18	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	180	1
10723	Fluoranthene	206-44-0	N.D.	3	18	1
10723	Fluorene	86-73-7	N.D.	3	18	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	18	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	18	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10723	Naphthalene	91-20-3	N.D.	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10723	Di-n-octylphthalate	117-84-0	N.D.	69	170	1
10723	Phenanthrene	85-01-8	N.D.	3	18	1
10723	Pyrene	129-00-0	4 J	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	600	1,000	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	18.1	0.0334	0.506	1
06947	Beryllium	7440-41-7	0.101 J	0.0678	0.506	1
06949	Cadmium	7440-43-9	N.D.	0.0769	0.506	1
06951	Chromium	7440-47-3	3.94	0.162	1.52	1
06952	Cobalt	7440-48-4	0.872	0.100	0.506	1
06953	Copper	7440-50-8	6.35	0.293	1.01	1
06969	Tin	7440-31-5	1.74 J	0.222	10.1	1
06971	Vanadium	7440-62-2	6.18	0.131	0.506	1
06972	Zinc	7440-66-6	15.5	0.202	2.02	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.229	0.0870	0.202	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	1.82	0.0850	0.405	2
06135	Lead	7439-92-1	4.43	0.0162	0.202	2
06139	Nickel	7440-02-0	4.56	0.0769	0.405	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-03-1 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102821
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:00 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	0.129 J	0.101	0.405	2
06142	Silver	7440-22-4	N.D.	0.0263	0.101	2
06145	Thallium	7440-28-0	0.0491 J	0.0303	0.101	2
SW-846 6020						
00159	Mercury	7439-97-6	0.0117 J	0.0100	0.100	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	N.D.	5.2	10.4	1
07332	Fluoride	16984-48-8	2.2	0.83	1.0	1
EPA 300.0						
05895	Total Cyanide	57-12-5	N.D.	0.19	0.52	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	443	1,330	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	4.0	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 21:42	Chelsea B Stong	0.93
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:11	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:11	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:11	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:11	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 09:45	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:09	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-03-1 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102821
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:00 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 08:59	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:40	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 01:14	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 01:14	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:23	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102821
Sample wt/vol: 5.39 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s20.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 4 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-04-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102822
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:15 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	14 J	7	21	1.03
10237	Benzene	71-43-2	N.D.	0.5	5	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	1.03
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1.03
10237	Chlorodifluoromethane	75-45-6	N.D.	2	11	1.03
10237	Chloroform	67-66-3	N.D.	1	5	1.03
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1.03
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1.03
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	1.03
10237	Ethylbenzene	100-41-4	N.D.	1	5	1.03
10237	Freon 113	76-13-1	N.D.	2	11	1.03
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	1.03
10237	Methylene Chloride	75-09-2	N.D.	2	5	1.03
10237	Styrene	100-42-5	N.D.	1	5	1.03
10237	Tetrachloroethene	127-18-4	N.D.	1	5	1.03
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	1.03
10237	Toluene	108-88-3	N.D.	1	5	1.03
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1.03
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1.03
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.03
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	1.03
10237	Trichloroethene	79-01-6	N.D.	1	5	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	1.03
10237	Vinyl Chloride	75-01-4	N.D.	1	5	1.03
10237	Xylene (Total)	1330-20-7	N.D.	1	5	1.03

A targeted library search was performed yielding the following result

1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	18	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	18	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	18	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	18	1
10723	Benzyl alcohol	100-51-6	N.D.	170	520	1
10723	Di-n-butylphthalate	84-74-2	N.D.	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-04-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102822
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:15 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	18	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	180	1
10723	Fluoranthene	206-44-0	N.D.	3	18	1
10723	Fluorene	86-73-7	N.D.	3	18	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	18	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	18	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	N.D.	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	N.D.	69	170	1
10723	Phenanthrene	85-01-8	N.D.	3	18	1
10723	Pyrene	129-00-0	N.D.	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	690 J	620	1,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	4.59	0.0333	0.505	1
06947	Beryllium	7440-41-7	N.D.	0.0677	0.505	1
06949	Cadmium	7440-43-9	N.D.	0.0768	0.505	1
06951	Chromium	7440-47-3	2.12	0.162	1.52	1
06952	Cobalt	7440-48-4	0.774	0.100	0.505	1
06953	Copper	7440-50-8	1.03	0.293	1.01	1
06969	Tin	7440-31-5	1.65 J	0.222	10.1	1
06971	Vanadium	7440-62-2	5.72	0.131	0.505	1
06972	Zinc	7440-66-6	4.41	0.202	2.02	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0869	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.758	0.0849	0.404	2
06135	Lead	7439-92-1	0.998	0.0162	0.202	2
06139	Nickel	7440-02-0	2.02	0.0768	0.404	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-04-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102822
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:15 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	N.D.	0.101	0.404	2
06142	Silver	7440-22-4	N.D.	0.0263	0.101	2
06145	Thallium	7440-28-0	N.D.	0.0303	0.101	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0101	0.101	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	N.D.	5.2	10.3	1
07332	Fluoride	16984-48-8	N.D.	0.83	1.0	1
EPA 300.0						
05895	Total Cyanide	57-12-5	N.D.	0.19	0.52	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	442	1,330	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	3.9	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 16:24	Chelsea B Stong	1.03
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:14	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:15	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:14	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:14	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 10:07	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:17	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-04-6 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102822
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:15 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 09:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:42	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 01:28	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 01:28	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:24	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102822
Sample wt/vol: 4.86 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s07.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 3.9 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.13	5	J
2.	Unknown	7.56	8	J
3.	Unknown	8.46	9	J
4. 541-05-9	Cyclotrisiloxane, hexamethyl	10.21	9	J B
5.				
6. VOCTIC	Total VOC TICs		31	J
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-05-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102823
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	23	8	23	1
10237	Benzene	71-43-2	N.D.	0.6	6	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	6	1
10237	Chlorodifluoromethane	75-45-6	N.D.	2	11	1
10237	Chloroform	67-66-3	N.D.	1	6	1
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	6	1
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	6	1
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	6	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1
10237	Ethylbenzene	100-41-4	N.D.	1	6	1
10237	Freon 113	76-13-1	N.D.	2	11	1
10237	Methyl Methacrylate	80-62-6	N.D.	1	6	1
10237	Methylene Chloride	75-09-2	N.D.	2	6	1
10237	Styrene	100-42-5	N.D.	1	6	1
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1
10237	Toluene	108-88-3	N.D.	1	6	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	6	1
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	6	1
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1
10237	Trichloroethene	79-01-6	N.D.	1	6	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	1
10237	Vinyl Chloride	75-01-4	N.D.	1	6	1
10237	Xylene (Total)	1330-20-7	N.D.	1	6	1

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	4	19	1
10723	Acetophenone	98-86-2	N.D.	19	38	1
10723	Anthracene	120-12-7	N.D.	4	19	1
10723	Benzo(a)anthracene	56-55-3	N.D.	4	19	1
10723	Benzo(a)pyrene	50-32-8	N.D.	4	19	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	4	19	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	4	19	1
10723	Benzyl alcohol	100-51-6	N.D.	190	560	1
10723	Di-n-butylphthalate	84-74-2	N.D.	75	190	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	19	38	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102823
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	4	19	1
10723	Dibenzofuran	132-64-9	N.D.	19	38	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	19	38	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	190	1
10723	Fluoranthene	206-44-0	N.D.	4	19	1
10723	Fluorene	86-73-7	N.D.	4	19	1
10723	Hexachlorobutadiene	87-68-3	N.D.	19	38	1
10723	Hexachloroethane	67-72-1	N.D.	38	190	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	19	1
10723	2-Methylnaphthalene	91-57-6	N.D.	4	19	1
10723	2-Methylphenol	95-48-7	N.D.	19	38	1
10723	4-Methylphenol	106-44-5	N.D.	19	38	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	N.D.	4	19	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	19	38	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	75	190	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	19	38	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	N.D.	75	190	1
10723	Phenanthrene	85-01-8	N.D.	4	19	1
10723	Pyrene	129-00-0	N.D.	4	19	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	6,800	11,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
	Reporting limits were raised due to interference from the sample matrix.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	2.98	0.0360	0.546	1
06947	Beryllium	7440-41-7	N.D.	0.0731	0.546	1
06949	Cadmium	7440-43-9	N.D.	0.0829	0.546	1
06951	Chromium	7440-47-3	1.69	0.175	1.64	1
06952	Cobalt	7440-48-4	0.536 J	0.108	0.546	1
06953	Copper	7440-50-8	0.784 J	0.317	1.09	1
06969	Tin	7440-31-5	1.67 J	0.240	10.9	1
06971	Vanadium	7440-62-2	4.35	0.142	0.546	1
06972	Zinc	7440-66-6	2.33	0.218	2.18	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0939	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.603	0.0917	0.437	2
06135	Lead	7439-92-1	0.931	0.0175	0.218	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102823
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	1.45	0.0829	0.437	2
06141	Selenium	7782-49-2	N.D.	0.109	0.437	2
06142	Silver	7440-22-4	N.D.	0.0284	0.109	2
06145	Thallium	7440-28-0	N.D.	0.0327	0.109	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0111	0.111	1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.6	11.3	1
07332	Fluoride	16984-48-8	N.D.	0.90	1.1	1
		SW-846 9012A	mg/kg	mg/kg	mg/kg	
05895	Total Cyanide	57-12-5	N.D.	0.20	0.56	1
		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	482	1,450	25
	Reporting limits were raised due to interference from the sample matrix.					
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	11.9	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 16:47	Chelsea B Stong	1
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:18	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:18	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:17	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:17	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 10:29	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:26	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102823
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 09:06	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:44	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 01:42	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 01:42	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:25	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102823
Sample wt/vol: 5.0 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/x102s08.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 12 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.56	8	J
2.	Unknown	8.48	6	J
3. 541-05-9	Cyclotrisiloxane, hexamethyl	10.21	6	J B
4.				
5. VOCTIC	Total VOC TICs		20	J
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-05-4-D Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102824
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN5D

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	25	7	21	1.03
10237	Benzene	71-43-2	N.D.	0.5	5	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	1.03
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1.03
10237	Chlorodifluoromethane	75-45-6	N.D.	2	11	1.03
10237	Chloroform	67-66-3	N.D.	1	5	1.03
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1.03
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1.03
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	1.03
10237	Ethylbenzene	100-41-4	N.D.	1	5	1.03
10237	Freon 113	76-13-1	N.D.	2	11	1.03
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	1.03
10237	Methylene Chloride	75-09-2	N.D.	2	5	1.03
10237	Styrene	100-42-5	N.D.	1	5	1.03
10237	Tetrachloroethene	127-18-4	N.D.	1	5	1.03
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	1.03
10237	Toluene	108-88-3	N.D.	1	5	1.03
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1.03
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1.03
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.03
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	1.03
10237	Trichloroethene	79-01-6	N.D.	1	5	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	1.03
10237	Vinyl Chloride	75-01-4	N.D.	1	5	1.03
10237	Xylene (Total)	1330-20-7	N.D.	1	5	1.03

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	18	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	18	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	18	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	18	1
10723	Benzyl alcohol	100-51-6	N.D.	170	520	1
10723	Di-n-butylphthalate	84-74-2	N.D.	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4-D Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102824
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN5D

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	18	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	180	1
10723	Fluoranthene	206-44-0	N.D.	3	18	1
10723	Fluorene	86-73-7	N.D.	3	18	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	18	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	18	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10723	Naphthalene	91-20-3	N.D.	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10723	Di-n-octylphthalate	117-84-0	N.D.	69	170	1
10723	Phenanthrene	85-01-8	N.D.	3	18	1
10723	Pyrene	129-00-0	N.D.	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	950 J	610	1,000	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	3.06	0.0335	0.507	1
06947	Beryllium	7440-41-7	N.D.	0.0679	0.507	1
06949	Cadmium	7440-43-9	N.D.	0.0771	0.507	1
06951	Chromium	7440-47-3	1.31 J	0.162	1.52	1
06952	Cobalt	7440-48-4	0.613	0.100	0.507	1
06953	Copper	7440-50-8	0.720 J	0.294	1.01	1
06969	Tin	7440-31-5	1.53 J	0.223	10.1	1
06971	Vanadium	7440-62-2	2.71	0.132	0.507	1
06972	Zinc	7440-66-6	2.61	0.203	2.03	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0872	0.203	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.691	0.0852	0.406	2
06135	Lead	7439-92-1	0.722	0.0162	0.203	2
06139	Nickel	7440-02-0	1.19	0.0771	0.406	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4-D Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102824
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN5D

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	N.D.	0.101	0.406	2
06142	Silver	7440-22-4	N.D.	0.0264	0.101	2
06145	Thallium	7440-28-0	N.D.	0.0304	0.101	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0097	0.0970	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	N.D.	5.2	10.3	1
07332	Fluoride	16984-48-8	N.D.	0.83	1.0	1
EPA 300.0						
05895	Total Cyanide	57-12-5	N.D.	0.19	0.51	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	440	1,320	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	3.3	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 17:11	Chelsea B Stong	1.03
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:21	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:21	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:20	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:20	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 10:51	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:34	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-05-4-D Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102824
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 13:25 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN5D

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 09:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 09:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/04/2013 16:21	David K Beck	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 09:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:46	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 01:55	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 01:55	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:26	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102824
Sample wt/vol: 4.87 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s09.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 3.3 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.13	6	J
2.	Unknown	7.55	10	J
3.	Unknown	7.64	6	J
4.	Unknown	7.97	5	J
5.	Unknown	8.48	8	J
6.	Unknown siloxane	10.21	14	J B
8. VOCTIC	Total VOC TICs		49	J
9.				
10.				
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-06-5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102825
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:50 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	34	9	25	1.05
10237	Benzene	71-43-2	0.8 J	0.6	6	1.05
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.05
10237	2-Chloro-1,3-butadiene	126-99-8	1 J	1	6	1.05
10237	Chlorodifluoromethane	75-45-6	N.D.	3	13	1.05
10237	Chloroform	67-66-3	N.D.	1	6	1.05
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	6	1.05
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	6	1.05
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	6	1.05
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	6	1.05
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.05
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.05
10237	Ethylbenzene	100-41-4	N.D.	1	6	1.05
10237	Freon 113	76-13-1	N.D.	3	13	1.05
10237	Methyl Methacrylate	80-62-6	N.D.	1	6	1.05
10237	Methylene Chloride	75-09-2	N.D.	3	6	1.05
10237	Styrene	100-42-5	N.D.	1	6	1.05
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.05
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.05
10237	Toluene	108-88-3	2 J	1	6	1.05
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	6	1.05
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	6	1.05
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1.05
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	6	1.05
10237	1,1,1-Trichloroethane	71-55-6	5 J	1	6	1.05
10237	Trichloroethene	79-01-6	N.D.	1	6	1.05
10237	Trichlorofluoromethane	75-69-4	N.D.	3	6	1.05
10237	Vinyl Chloride	75-01-4	N.D.	1	6	1.05
10237	Xylene (Total)	1330-20-7	N.D.	1	6	1.05

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	40	200	10
10723	Acetophenone	98-86-2	N.D.	200	400	10
10723	Anthracene	120-12-7	N.D.	40	200	10
10723	Benzo(a)anthracene	56-55-3	N.D.	40	200	10
10723	Benzo(a)pyrene	50-32-8	N.D.	40	200	10
10723	Benzo(b)fluoranthene	205-99-2	N.D.	40	200	10
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	40	200	10
10723	Benzyl alcohol	100-51-6	N.D.	2,000	6,000	10
10723	Di-n-butylphthalate	84-74-2	N.D.	790	2,000	10
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	200	400	10

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013FNL-06-5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102825
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:50 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	40	200	10
10723	Dibenzofuran	132-64-9	N.D.	200	400	10
10723	2,4-Dimethylphenol	105-67-9	N.D.	200	400	10
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	790	2,000	10
10723	Fluoranthene	206-44-0	N.D.	40	200	10
10723	Fluorene	86-73-7	N.D.	40	200	10
10723	Hexachlorobutadiene	87-68-3	N.D.	200	400	10
10723	Hexachloroethane	67-72-1	N.D.	400	2,000	10
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	40	200	10
10723	2-Methylnaphthalene	91-57-6	N.D.	40	200	10
10723	2-Methylphenol	95-48-7	N.D.	200	400	10
10723	4-Methylphenol	106-44-5	N.D.	200	400	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	N.D.	40	200	10
10723	N-Nitrosodiethylamine	55-18-5	N.D.	200	400	10
10723	N-Nitrosodimethylamine	62-75-9	N.D.	790	2,000	10
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	200	400	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	N.D.	790	2,000	10
10723	Phenanthrene	85-01-8	N.D.	40	200	10
10723	Pyrene	129-00-0	N.D.	40	200	10
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	1,800	720	1,200	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	6.66	0.0381	0.578	1
06947	Beryllium	7440-41-7	0.111 J	0.0774	0.578	1
06949	Cadmium	7440-43-9	N.D.	0.0878	0.578	1
06951	Chromium	7440-47-3	4.84	0.185	1.73	1
06952	Cobalt	7440-48-4	0.506 J	0.114	0.578	1
06953	Copper	7440-50-8	2.67	0.335	1.16	1
06969	Tin	7440-31-5	1.92 J	0.254	11.6	1
06971	Vanadium	7440-62-2	3.68	0.150	0.578	1
06972	Zinc	7440-66-6	4.73	0.231	2.31	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.120 J	0.0994	0.231	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.544	0.0971	0.462	2
06135	Lead	7439-92-1	1.49	0.0185	0.231	2
06139	Nickel	7440-02-0	2.56	0.0878	0.462	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-06-5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102825
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:50 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	0.118 J	0.116	0.462	2
06142	Silver	7440-22-4	N.D.	0.0300	0.116	2
06145	Thallium	7440-28-0	N.D.	0.0347	0.116	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0114	0.114	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	993	120	239	20
07332	Fluoride	16984-48-8	N.D.	0.96	1.2	1
EPA 300.0						
05895	Total Cyanide	57-12-5	0.26 J	0.21	0.59	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	511	1,530	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	16.8	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 17:34	Chelsea B Stong	1.05
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:24	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:24	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:23	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:24	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 11:12	Brian K Graham	10
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:43	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-06-5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102825
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 15:50 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 09:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 09:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 09:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:48	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 16:24	Clinton M Wilson	20
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 02:09	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:27	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102825
Sample wt/vol: 4.75 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s10.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 17 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.02	12	J
2.	Unknown	6.14	12	J
3.	Unknown	6.23	16	J
4.	Unknown	7.55	15	J
5. 590-86-3	Butanal, 3-methyl-	8.58	37	J
6. 541-05-9	Cyclotrisiloxane, hexamethyl	10.21	18	J B
7.	Unknown	10.61	360	J
8. 3777-69-3	Furan, 2-pentyl-	12.63	13	J
9.	Unknown	13.41	18	J
10.	Unknown siloxane	13.55	21	J B
11.				
12. VOCTIC	Total VOC TICs		520	J
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30.				

page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102826
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	60	7	21	1.02
10237	Benzene	71-43-2	N.D.	0.5	5	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	1.02
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1.02
10237	Chlorodifluoromethane	75-45-6	N.D.	2	11	1.02
10237	Chloroform	67-66-3	N.D.	1	5	1.02
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1.02
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1.02
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	1.02
10237	Ethylbenzene	100-41-4	N.D.	1	5	1.02
10237	Freon 113	76-13-1	N.D.	2	11	1.02
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	1.02
10237	Methylene Chloride	75-09-2	N.D.	2	5	1.02
10237	Styrene	100-42-5	N.D.	1	5	1.02
10237	Tetrachloroethene	127-18-4	21	1	5	1.02
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	1.02
10237	Toluene	108-88-3	N.D.	1	5	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1.02
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1.02
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.02
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1.02
10237	1,1,1-Trichloroethane	71-55-6	1 J	1	5	1.02
10237	Trichloroethene	79-01-6	N.D.	1	5	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	1.02
10237	Vinyl Chloride	75-01-4	N.D.	1	5	1.02
10237	Xylene (Total)	1330-20-7	N.D.	1	5	1.02

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	17	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	17	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	17	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	17	1
10723	Benzo(b)fluoranthene	205-99-2	N.D.	3	17	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	17	1
10723	Benzyl alcohol	100-51-6	N.D.	170	510	1
10723	Di-n-butylphthalate	84-74-2	N.D.	68	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102826
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	17	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	170	1
10723	Fluoranthene	206-44-0	N.D.	3	17	1
10723	Fluorene	86-73-7	N.D.	3	17	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	17	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	17	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10723	Naphthalene	91-20-3	N.D.	3	17	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	68	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10723	Di-n-octylphthalate	117-84-0	N.D.	68	170	1
10723	Phenanthrene	85-01-8	N.D.	3	17	1
10723	Pyrene	129-00-0	N.D.	3	17	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	810 J	620	1,000	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	5.22	0.0339	0.513	1
06947	Beryllium	7440-41-7	N.D.	0.0687	0.513	1
06949	Cadmium	7440-43-9	N.D.	0.0780	0.513	1
06951	Chromium	7440-47-3	2.14	0.164	1.54	1
06952	Cobalt	7440-48-4	0.672	0.102	0.513	1
06953	Copper	7440-50-8	1.16	0.298	1.03	1
06969	Tin	7440-31-5	1.53 J	0.226	10.3	1
06971	Vanadium	7440-62-2	3.81	0.133	0.513	1
06972	Zinc	7440-66-6	3.20	0.205	2.05	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0882	0.205	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.631	0.0862	0.410	2
06135	Lead	7439-92-1	1.10	0.0164	0.205	2
06139	Nickel	7440-02-0	1.82	0.0780	0.410	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102826
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06141	Selenium	7782-49-2	N.D.	0.103	0.410	2
06142	Silver	7440-22-4	N.D.	0.0267	0.103	2
06145	Thallium	7440-28-0	N.D.	0.0308	0.103	2
SW-846 6020						
00159	Mercury	7439-97-6	N.D.	0.0102	0.102	1
SW-846 7471A						
Wet Chemistry						
07333	Chloride	16887-00-6	N.D.	5.2	10.3	1
07332	Fluoride	16984-48-8	N.D.	0.83	1.0	1
EPA 300.0						
05895	Total Cyanide	57-12-5	N.D.	0.18	0.50	1
SW-846 9012A						
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	N.D.	440	1,320	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
00111	Moisture	n.a.	3.5	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 17:57	Chelsea B Stong	1.02
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:27	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:27	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:26	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:26	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 07:11	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 21:51	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102826
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 07:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:50	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/28/2013 23:37	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/28/2013 23:37	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:31	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102826
Sample wt/vol: 4.92 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s11.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 3.5 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.55	8	J
2.	Unknown	7.97	6	J
3.	Unknown	10.61	6	J
4.				
5. VOCTIC	Total VOC TICs		20	J
6.				
7.				
8.				
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page 1 of 1

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REVISED

Sample Description: RI0613-2013FNL-07-3.5 MS Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102827
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	160	7	20	0.98
10237	Benzene	71-43-2	19	0.5	5	0.98
10237	Carbon Tetrachloride	56-23-5	23	1	5	0.98
10237	2-Chloro-1,3-butadiene	126-99-8	20	1	5	0.98
10237	Chlorodifluoromethane	75-45-6	21	2	10	0.94
10237	Chloroform	67-66-3	22	1	5	0.98
10237	3,4-Dichloro-1-butene	760-23-6	17	1	5	0.94
10237	Dichlorodifluoromethane	75-71-8	22	2	5	0.98
10237	1,1-Dichloroethane	75-34-3	19	1	5	0.98
10237	cis-1,2-Dichloroethene	156-59-2	20	1	5	0.98
10237	trans-1,2-Dichloroethene	156-60-5	20	1	5	0.98
10237	Ethylbenzene	100-41-4	19	1	5	0.98
10237	Freon 113	76-13-1	21	2	10	0.98
10237	Methyl Methacrylate	80-62-6	26	1	5	0.98
10237	Methylene Chloride	75-09-2	20	2	5	0.98
10237	Styrene	100-42-5	18	1	5	0.98
10237	Tetrachloroethene	127-18-4	21	1	5	0.98
10237	Tetrahydrofuran	109-99-9	93	4	5	0.98
10237	Toluene	108-88-3	19	1	5	0.98
10237	1,2,4-Trichlorobenzene	120-82-1	14	1	5	0.98
10237	2,3,4-Trichlorobutene	2431-50-7	18	1	5	0.94
10237	1,1,1-Trichloroethane	71-55-6	22	1	5	0.98
10237	Trichloroethene	79-01-6	21	1	5	0.98
10237	Trichlorofluoromethane	75-69-4	26	2	5	0.98
10237	Vinyl Chloride	75-01-4	19	1	5	0.98
10237	Xylene (Total)	1330-20-7	56	1	5	0.98
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	1,800	3	18	1
10723	Acetophenone	98-86-2	1,800	17	35	1
10723	Anthracene	120-12-7	1,800	3	18	1
10723	Benzo(a)anthracene	56-55-3	1,800	3	18	1
10723	Benzo(a)pyrene	50-32-8	1,900	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	1,900	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	1,900	3	18	1
10723	Benzyl alcohol	100-51-6	1,900	170	520	1
10723	Di-n-butylphthalate	84-74-2	1,800	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	1,900	17	35	1
10723	Chrysene	218-01-9	1,700	3	18	1
10723	Dibenzofuran	132-64-9	1,800	17	35	1
10723	2,4-Dimethylphenol	105-67-9	1,900	17	35	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	69	180	1
10723	Fluoranthene	206-44-0	1,800	3	18	1
10723	Fluorene	86-73-7	1,800	3	18	1
10723	Hexachlorobutadiene	87-68-3	1,600	17	35	1
10723	Hexachloroethane	67-72-1	1,800	35	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	3	18	1
10723	2-Methylnaphthalene	91-57-6	1,700	3	18	1
10723	2-Methylphenol	95-48-7	1,900	17	35	1
10723	4-Methylphenol	106-44-5	1,900	17	35	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 MS Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102827
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	1,700	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	1,800	17	35	1
10723	N-Nitrosodimethylamine	62-75-9	1,500	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	1,900	17	35	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	1,900	69	170	1
10723	Phenanthrene	85-01-8	1,800	3	18	1
10723	Pyrene	129-00-0	1,700	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	8,300	620	1,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	212	0.0339	0.513	1
06947	Beryllium	7440-41-7	5.14	0.0687	0.513	1
06949	Cadmium	7440-43-9	5.15	0.0780	0.513	1
06951	Chromium	7440-47-3	22.9	0.164	1.54	1
06952	Cobalt	7440-48-4	52.0	0.102	0.513	1
06953	Copper	7440-50-8	26.7	0.298	1.03	1
06969	Tin	7440-31-5	411	0.226	10.3	1
06971	Vanadium	7440-62-2	56.8	0.133	0.513	1
06972	Zinc	7440-66-6	55.3	0.205	2.05	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.25	0.0882	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	3.31	0.0862	0.410	2
06135	Lead	7439-92-1	4.71	0.0164	0.205	2
06139	Nickel	7440-02-0	15.0	0.0780	0.410	2
06141	Selenium	7782-49-2	2.55	0.103	0.410	2
06142	Silver	7440-22-4	12.4	0.0267	0.103	2
06145	Thallium	7440-28-0	0.478	0.0308	0.103	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.161	0.0101	0.101	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	20.1	5.1	10.3	1
07332	Fluoride	16984-48-8	7.9	0.82	1.0	1

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Sample Description: RI0613-2013FNL-07-3.5 MS Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102827
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

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Submitted: 06/21/2013 09:05

URS Corporation

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Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
05895	Total Cyanide	SW-846 9012A 57-12-5	mg/kg 5.4	mg/kg 0.18	mg/kg 0.51	1
SM 4500-NH3 B/C modified-1997						
00573	Ammonia	7664-41-7	4,610	440	1,320	25
Wet Chemistry						
00118	Moisture	SM 2540 G-1997 n.a.	% 3.5	% 0.50	% 0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013	18:21	Chelsea B Stong	0.98
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013	19:08	Chelsea B Stong	0.94
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013	15:30	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013	15:30	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013	15:29	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013	15:30	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013	07:33	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013	22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013	22:00	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013	10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013	07:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013	08:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013	08:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013	19:54	Parker D Lindstrom	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 MS Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102827
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 00:32	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 00:32	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:32	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 MSD Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102828
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	190	7	20	0.98
10237	Benzene	71-43-2	20	0.5	5	0.98
10237	Carbon Tetrachloride	56-23-5	24	1	5	0.98
10237	2-Chloro-1,3-butadiene	126-99-8	21	1	5	0.98
10237	Chlorodifluoromethane	75-45-6	20	2	10	0.92
10237	Chloroform	67-66-3	22	1	5	0.98
10237	3,4-Dichloro-1-butene	760-23-6	17	1	5	0.92
10237	Dichlorodifluoromethane	75-71-8	23	2	5	0.98
10237	1,1-Dichloroethane	75-34-3	21	1	5	0.98
10237	cis-1,2-Dichloroethene	156-59-2	20	1	5	0.98
10237	trans-1,2-Dichloroethene	156-60-5	20	1	5	0.98
10237	Ethylbenzene	100-41-4	21	1	5	0.98
10237	Freon 113	76-13-1	21	2	10	0.98
10237	Methyl Methacrylate	80-62-6	24	1	5	0.98
10237	Methylene Chloride	75-09-2	20	2	5	0.98
10237	Styrene	100-42-5	19	1	5	0.98
10237	Tetrachloroethene	127-18-4	24	1	5	0.98
10237	Tetrahydrofuran	109-99-9	92	4	5	0.98
10237	Toluene	108-88-3	20	1	5	0.98
10237	1,2,4-Trichlorobenzene	120-82-1	14	1	5	0.98
10237	2,3,4-Trichlorobutene	2431-50-7	18	1	5	0.92
10237	1,1,1-Trichloroethane	71-55-6	23	1	5	0.98
10237	Trichloroethene	79-01-6	22	1	5	0.98
10237	Trichlorofluoromethane	75-69-4	25	2	5	0.98
10237	Vinyl Chloride	75-01-4	21	1	5	0.98
10237	Xylene (Total)	1330-20-7	59	1	5	0.98
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	1,700	3	17	1
10723	Acetophenone	98-86-2	1,800	17	34	1
10723	Anthracene	120-12-7	1,800	3	17	1
10723	Benzo(a)anthracene	56-55-3	1,700	3	17	1
10723	Benzo(a)pyrene	50-32-8	1,800	3	17	1
10723	Benzo(b)fluoranthene	205-99-2	1,900	3	17	1
10723	Benzo(g,h,i)perylene	191-24-2	1,800	3	17	1
10723	Benzyl alcohol	100-51-6	1,900	170	510	1
10723	Di-n-butylphthalate	84-74-2	1,800	68	170	1
10723	4-Chloro-3-methylphenol	59-50-7	1,900	17	34	1
10723	Chrysene	218-01-9	1,600	3	17	1
10723	Dibenzofuran	132-64-9	1,800	17	34	1
10723	2,4-Dimethylphenol	105-67-9	1,900	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	68	170	1
10723	Fluoranthene	206-44-0	1,700	3	17	1
10723	Fluorene	86-73-7	1,800	3	17	1
10723	Hexachlorobutadiene	87-68-3	1,600	17	34	1
10723	Hexachloroethane	67-72-1	1,800	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	3	17	1
10723	2-Methylnaphthalene	91-57-6	1,700	3	17	1
10723	2-Methylphenol	95-48-7	1,900	17	34	1
10723	4-Methylphenol	106-44-5	1,900	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 MSD Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102828
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	1,700	3	17	1
10723	N-Nitrosodiethylamine	55-18-5	1,800	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	1,600	68	170	1
10723	N-Nitrosodiphenylamine	86-30-6	1,800	17	34	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	1,800	68	170	1
10723	Phenanthrene	85-01-8	1,700	3	17	1
10723	Pyrene	129-00-0	1,700	3	17	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	8,800	620	1,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	216	0.0339	0.513	1
06947	Beryllium	7440-41-7	5.21	0.0687	0.513	1
06949	Cadmium	7440-43-9	5.29	0.0780	0.513	1
06951	Chromium	7440-47-3	23.3	0.164	1.54	1
06952	Cobalt	7440-48-4	53.2	0.102	0.513	1
06953	Copper	7440-50-8	27.5	0.298	1.03	1
06969	Tin	7440-31-5	421	0.226	10.3	1
06971	Vanadium	7440-62-2	57.4	0.133	0.513	1
06972	Zinc	7440-66-6	57.6	0.205	2.05	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.28	0.0882	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	3.02	0.0862	0.410	2
06135	Lead	7439-92-1	4.36	0.0164	0.205	2
06139	Nickel	7440-02-0	13.3	0.0780	0.410	2
06141	Selenium	7782-49-2	2.23	0.103	0.410	2
06142	Silver	7440-22-4	11.3	0.0267	0.103	2
06145	Thallium	7440-28-0	0.469	0.0308	0.103	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.160	0.0101	0.101	1
Wet Chemistry	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	4,640	440	1,320	25

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 MSD Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102828
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
	SM 2540 G-1997		%	%	%	
00118	Moisture	n.a.	3.5	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 18:45	Chelsea B Stong	0.98
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 19:31	Chelsea B Stong	0.92
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:33	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:34	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:33	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:33	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 07:55	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 22:08	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 07:50	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 20:00	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Dupl Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102829
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFN07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	4.59	0.0339	0.513	1
06947	Beryllium	7440-41-7	N.D.	0.0687	0.513	1
06949	Cadmium	7440-43-9	N.D.	0.0780	0.513	1
06951	Chromium	7440-47-3	1.93	0.164	1.54	1
06952	Cobalt	7440-48-4	0.624	0.102	0.513	1
06953	Copper	7440-50-8	1.33	0.298	1.03	1
06969	Tin	7440-31-5	1.56 J	0.226	10.3	1
06971	Vanadium	7440-62-2	3.47	0.133	0.513	1
06972	Zinc	7440-66-6	2.98	0.205	2.05	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	N.D.	0.0882	0.205	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.742	0.0862	0.410	2
06135	Lead	7439-92-1	1.19	0.0164	0.205	2
06139	Nickel	7440-02-0	1.89	0.0780	0.410	2
06141	Selenium	7782-49-2	N.D.	0.103	0.410	2
06142	Silver	7440-22-4	N.D.	0.0267	0.103	2
06145	Thallium	7440-28-0	N.D.	0.0308	0.103	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	N.D.	0.0099	0.0989	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.1	10.3	1
07332	Fluoride	16984-48-8	N.D.	0.82	1.0	1
SW-846 9012A						
	mg/kg		mg/kg	mg/kg		
05895	Total Cyanide	57-12-5	N.D.	0.18	0.51	1
SM 4500-NH3 B/C modified-1997						
	mg/kg		mg/kg	mg/kg		
00573	Ammonia	7664-41-7	N.D.	440	1,320	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry						
	SM 2540 G-1997		%	%	%	
00118	Moisture	n.a.	3.5	0.50	0.50	1
00121	Moisture Duplicate	n.a.	3.6	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-07-3.5 Dupl Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102829
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 09:45 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 07:43	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 08:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 08:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 19:52	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13178178201A	06/29/2013 00:18	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13178178201A	06/29/2013 00:18	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:33	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201A	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-08-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102830
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 11:30 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	9 J	7	21	0.99
10237	Benzene	71-43-2	N.D.	0.5	5	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	0.99
10237	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	0.99
10237	Chlorodifluoromethane	75-45-6	N.D.	2	10	0.99
10237	Chloroform	67-66-3	N.D.	1	5	0.99
10237	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	0.99
10237	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	0.99
10237	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	5	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	0.99
10237	Ethylbenzene	100-41-4	N.D.	1	5	0.99
10237	Freon 113	76-13-1	N.D.	2	10	0.99
10237	Methyl Methacrylate	80-62-6	N.D.	1	5	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	5	0.99
10237	Styrene	100-42-5	N.D.	1	5	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	5	0.99
10237	Tetrahydrofuran	109-99-9	N.D.	4	5	0.99
10237	Toluene	108-88-3	N.D.	1	5	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	0.99
10237	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	0.99
10237	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	0.99
10237	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	0.99
10237	Trichloroethene	79-01-6	N.D.	1	5	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	5	0.99
10237	Vinyl Chloride	75-01-4	N.D.	1	5	0.99
10237	Xylene (Total)	1330-20-7	N.D.	1	5	0.99

A targeted library search was performed yielding the following result

1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-1,2,3-trichlorobutene-2;
2,3-Dichloro-1,3-butadiene and 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Acenaphthene	83-32-9	N.D.	3	18	1
10723	Acetophenone	98-86-2	N.D.	17	34	1
10723	Anthracene	120-12-7	N.D.	3	18	1
10723	Benzo(a)anthracene	56-55-3	N.D.	3	18	1
10723	Benzo(a)pyrene	50-32-8	N.D.	3	18	1
10723	Benzo(b)fluoranthene	205-99-2	4 J	3	18	1
10723	Benzo(g,h,i)perylene	191-24-2	N.D.	3	18	1
10723	Benzyl alcohol	100-51-6	N.D.	170	510	1
10723	Di-n-butylphthalate	84-74-2	N.D.	69	170	1
10723	4-Chloro-3-methylphenol	59-50-7	N.D.	17	34	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-08-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102830
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 11:30 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
10723	Chrysene	218-01-9	N.D.	3	18	1
10723	Dibenzofuran	132-64-9	N.D.	17	34	1
10723	2,4-Dimethylphenol	105-67-9	N.D.	17	34	1
10723	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	180	1
10723	Fluoranthene	206-44-0	N.D.	3	18	1
10723	Fluorene	86-73-7	N.D.	3	18	1
10723	Hexachlorobutadiene	87-68-3	N.D.	17	34	1
10723	Hexachloroethane	67-72-1	N.D.	34	170	1
10723	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	18	1
10723	2-Methylnaphthalene	91-57-6	N.D.	3	18	1
10723	2-Methylphenol	95-48-7	N.D.	17	34	1
10723	4-Methylphenol	106-44-5	N.D.	17	34	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10723	Naphthalene	91-20-3	N.D.	3	18	1
10723	N-Nitrosodiethylamine	55-18-5	N.D.	17	34	1
10723	N-Nitrosodimethylamine	62-75-9	N.D.	69	170	1
10723	N-Nitrosodiphenylamine	86-30-6	N.D.	17	34	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10723	Di-n-octylphthalate	117-84-0	N.D.	69	170	1
10723	Phenanthrene	85-01-8	N.D.	3	18	1
10723	Pyrene	129-00-0	N.D.	3	18	1
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	660 J	620	1,000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06946	Barium	7440-39-3	3.10	0.0335	0.508	1
06947	Beryllium	7440-41-7	N.D.	0.0681	0.508	1
06949	Cadmium	7440-43-9	N.D.	0.0772	0.508	1
06951	Chromium	7440-47-3	1.43 J	0.163	1.52	1
06952	Cobalt	7440-48-4	0.501 J	0.101	0.508	1
06953	Copper	7440-50-8	0.693 J	0.295	1.02	1
06969	Tin	7440-31-5	1.60 J	0.224	10.2	1
06971	Vanadium	7440-62-2	3.47	0.132	0.508	1
06972	Zinc	7440-66-6	2.04	0.203	2.03	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0874	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.567	0.0853	0.406	2
06135	Lead	7439-92-1	0.776	0.0163	0.203	2
06139	Nickel	7440-02-0	1.37	0.0772	0.406	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-08-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102830
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 11:30 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	
06141	Selenium	7782-49-2	N.D.	0.102	0.406	2
06142	Silver	7440-22-4	N.D.	0.0264	0.102	2
06145	Thallium	7440-28-0	N.D.	0.0305	0.102	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0102	0.102	1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.2	10.3	1
07332	Fluoride	16984-48-8	N.D.	0.82	1.0	1
		SW-846 9012A	mg/kg	mg/kg	mg/kg	
05895	Total Cyanide	57-12-5	N.D.	0.18	0.51	1
		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	440	1,320	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	3.5	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131831AA	07/02/2013 19:54	Chelsea B Stong	0.99
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317231493	06/21/2013 15:49	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317231493	06/21/2013 15:49	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	3	201317231493	06/21/2013 15:49	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317231493	06/21/2013 15:47	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317231493	06/21/2013 15:47	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	3	201317231493	06/21/2013 15:48	Mitchell R Washel	n.a.
10723	GC/MS Semivolatiles	SW-846 8270C	1	13175SLE026	07/05/2013 11:35	Brian K Graham	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	13175SLE026	06/24/2013 22:40	Karen L Beyer	1
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 22:25	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013FNL-08-4 Soil
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # SW 7102830
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 11:30 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFN08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06953	Copper	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06969	Tin	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	131795708002	06/30/2013 09:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	131795708002B	07/02/2013 09:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	131795708002A	07/02/2013 09:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131795711002	07/01/2013 20:04	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	131795708002	06/29/2013 12:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131795711002	06/29/2013 15:40	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	2	13178178201B	06/29/2013 03:19	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	2	13178178201B	06/29/2013 03:19	Clinton M Wilson	1
05895	Total Cyanide	SW-846 9012A	1	13179102201A	07/01/2013 12:34	Joseph E McKenzie	1
01352	Deionized Water Extraction	EPA 300.0	1	13178178201B	06/27/2013 14:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	13179102201A	06/28/2013 14:00	Carolyn M Mastropietro	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13177820002A	06/26/2013 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 7102830
Sample wt/vol: 5.04 (g/mL) g Lab File ID: HP09193.i/13jul02a.b/xl02s16.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. 3.5 Date Analyzed: 07/02/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.48	6	J
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3. VOCTIC	Total VOC TICs		6	J
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page 1 of 1

FORM I VOA-TIC

REVISED

Sample Description: **EB-062013-FNL Blank Water**
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # **WW 7102831**
 LL Group # **1398865**
 Account # **07032**

Project Name: **MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL**

Collected: 06/20/2013 16:40 by HH

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/21/2013 09:05

URS Corporation

Reported: 07/17/2013 08:34

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MFNEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1
10335	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1
10335	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methyl Methacrylate	80-62-6	N.D.	1	5	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Styrene	100-42-5	N.D.	1	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
10335	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1
10335	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1
10335	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
10335	Vinyl Chloride	75-01-4	N.D.	1	5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	5	1

A targeted library search was performed yielding the following result

1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
 chlorodifluoromethane; chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-
 1,2,3-trichlorobutene-2; 2,3-Dichloro-1,3-butadiene and
 1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
 FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
 on the back of this form.

GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
01309	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
01309	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
01309	Acetophenone	98-86-2	N.D.	0.5	1	1
01309	Anthracene	120-12-7	N.D.	0.1	0.5	1
01309	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
01309	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
01309	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
01309	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
01309	Benzyl alcohol	100-51-6	N.D.	5	16	1
01309	Di-n-butylphthalate	84-74-2	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-062013-FNL Blank Water
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # WW 7102831
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:40 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFNEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
01309	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
01309	Chrysene	218-01-9	N.D.	0.1	0.5	1
01309	Dibenzofuran	132-64-9	N.D.	0.5	1	1
01309	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
01309	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
01309	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
01309	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
01309	Fluorene	86-73-7	N.D.	0.1	0.5	1
01309	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
01309	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
01309	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
01309	2-Methylphenol	95-48-7	N.D.	0.5	1	1
01309	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
01309	Naphthalene	91-20-3	N.D.	0.1	0.5	1
01309	N-Nitrosodiethylamine	55-18-5	N.D.	0.5	1	1
01309	N-Nitrosodimethylamine	62-75-9	N.D.	2	5	1
01309	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
01309	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
01309	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
01309	Pyrene	129-00-0	N.D.	0.1	0.5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	26 J	20	60	1
	Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	N.D.	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0013	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0027	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07069	Tin	7440-31-5	N.D.	0.0029	0.0200	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
07072	Zinc	7440-66-6	N.D.	0.0020	0.0200	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-062013-FNL Blank Water
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # WW 7102831
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:40 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFNEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/l	mg/l	mg/l	
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
06039	Nickel	7440-02-0	N.D.	0.00065	0.0020	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
	SW-846 9012A		mg/l	mg/l	mg/l	
08255	Total Cyanide	57-12-5	N.D.	0.0050	0.010	1
	SM 4500-NH3 B/C modified-1997		mg/l	mg/l	mg/l	
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	0.60	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131832AA	07/03/2013 03:47	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131832AA	07/03/2013 03:47	Stephanie A Selis	1
01309	GC/MS Semivolatiles	SW-846 8270C	1	13177WAB026	07/03/2013 19:31	Holly Berry	1
10464	BNA Water Extraction (App IX)	SW-846 3510C	1	13177WAB026	06/26/2013 19:15	Nicholas W Shroyer	1
13022	Acetaldehyde	SW-846 8315A	1	131730002A	06/24/2013 23:24	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131730002A	06/23/2013 08:00	Olivia Arosemena	1
07046	Barium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07047	Beryllium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07052	Cobalt	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07053	Copper	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
07072	Zinc	SW-846 6010B	1	131745705002	06/26/2013 23:13	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-062013-FNL Blank Water
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # WW 7102831
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 16:40 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFNEB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	131796050004B	07/01/2013 13:53	Choon Y Tian	1
06042	Silver	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	131796050004A	07/01/2013 13:53	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131755713001	06/25/2013 10:52	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131796050004	06/30/2013 08:29	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131755713001	06/24/2013 17:00	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13180655902B	06/30/2013 04:52	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13180655902B	06/30/2013 04:52	Christopher D Meeks	1
08255	Total Cyanide	SW-846 9012A	1	13176117101A	06/26/2013 10:50	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012A	1	13176117101A	06/25/2013 11:15	Carolyn M Mastropietro	1
00221	Ammonia Nitrogen	SM 4500-NH3 B/C modified-1997	1	13178022101A	06/27/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 7102831
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP09355.i/13jul02b.b/y102s43.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. Date Analyzed: 07/03/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

REVISED

Sample Description: TB-062013-FNL Blank Water
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # WW 7102832
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 08:00 by HH

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/21/2013 09:05

Reported: 07/17/2013 08:34

MFNTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	2-Chloro-1,3-butadiene	126-99-8	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	2,3-Dichloro-1,3-butadiene	1653-19-6	N.D.	1	5	1
10335	3,4-Dichloro-1-butene	760-23-6	N.D.	1	5	1
10335	1,3-Dichlorobutene-2 (total)	926-57-8	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methyl Methacrylate	80-62-6	N.D.	1	5	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Styrene	100-42-5	N.D.	1	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
10335	2,3,4-Trichlorobutene	2431-50-7	N.D.	1	5	1
10335	cis-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1
10335	trans-1,2,3-Trichlorobutene-2	n.a.	N.D.	1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
10335	Vinyl Chloride	75-01-4	N.D.	1	5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	5	1

A targeted library search was performed yielding the following result
1,1-dichloro-1,2,2,2-tetrafluoroethane; 1,1-dichloro-2,2,2-trifluoroethane;
chlorodifluoromethane; chlorofluoromethane; cis-1,2,3-trichlorobutene-2; trans-
1,2,3-trichlorobutene-2; 2,3-Dichloro-1,3-butadiene and
1,3-dichlorobutene-2 (total) are non-detect.

00882 Volatile Library Search (10)

The results from the volatile library search are listed on the attached
FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined
on the back of this form.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality
Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131832AA	07/03/2013 04:08	Stephanie A Selis	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: TB-062013-FNL Blank Water
REM INV FORMER NEOPRENE AREA SOIL 6/13

LL Sample # WW 7102832
LL Group # 1398865
Account # 07032

Project Name: MTG - REM INVESTIGATION FORMER NEOPRENE AREA SOIL

Collected: 06/20/2013 08:00 by HH

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 06/21/2013 09:05

Iron Hill Corporate Center

Reported: 07/17/2013 08:34

4051 Ogletown Road, Suite 300

Newark DE 19713

MFNTB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131832AA	07/03/2013 04:08	Stephanie A Selis	1

*=This limit was used in the evaluation of the final result

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 7102832
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP09355.i/13jul02b.b/y102s44.d
Level: (low/med) LOW Date Received: 06/21/13
% Moisture: not dec. Date Analyzed: 07/03/13
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: X131831AA	Sample number(s): 7102819-7102828,7102830								
Acetone	N.D.	7.	20	ug/kg	103		18-197		
Benzene	N.D.	0.5	5	ug/kg	98		80-120		
Carbon Tetrachloride	N.D.	1.	5	ug/kg	106		69-122		
2-Chloro-1,3-butadiene	N.D.	1.	5	ug/kg	96		72-126		
Chlorodifluoromethane	N.D.	2.	10	ug/kg	91		70-130		
Chloroform	N.D.	1.	5	ug/kg	104		80-120		
2,3-Dichloro-1,3-butadiene	N.D.	1.	5	ug/kg					
3,4-Dichloro-1-butene	N.D.	1.	5	ug/kg	92		75-120		
1,3-Dichlorobutene-2 (total)	N.D.	1.	5	ug/kg					
Dichlorodifluoromethane	N.D.	2.	5	ug/kg	99		32-120		
1,1-Dichloroethane	N.D.	1.	5	ug/kg	100		80-120		
cis-1,2-Dichloroethene	N.D.	1.	5	ug/kg	100		80-120		
trans-1,2-Dichloroethene	N.D.	1.	5	ug/kg	100		79-120		
Ethylbenzene	N.D.	1.	5	ug/kg	102		80-120		
Freon 113	N.D.	2.	10	ug/kg	96		64-137		
Methyl Methacrylate	N.D.	1.	5	ug/kg	96		60-120		
Methylene Chloride	N.D.	2.	5	ug/kg	100		76-124		
Styrene	N.D.	1.	5	ug/kg	100		76-120		
Tetrachloroethene	N.D.	1.	5	ug/kg	101		78-126		
Tetrahydrofuran	N.D.	4.	5	ug/kg	99		71-132		
Toluene	N.D.	1.	5	ug/kg	100		80-120		
1,2,4-Trichlorobenzene	N.D.	1.	5	ug/kg	100		68-113		
2,3,4-Trichlorobutene	N.D.	1.	5	ug/kg	90		79-120		
cis-1,2,3-Trichlorobutene-2	N.D.	1.	5	ug/kg					
trans-1,2,3-Trichlorobutene-2	N.D.	1.	5	ug/kg					
1,1,1-Trichloroethane	N.D.	1.	5	ug/kg	100		71-125		
Trichloroethene	N.D.	1.	5	ug/kg	104		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/kg	110		58-133		
Vinyl Chloride	N.D.	1.	5	ug/kg	96		53-120		
Xylene (Total)	N.D.	1.	5	ug/kg	100		80-120		
Batch number: Y131832AA	Sample number(s): 7102831-7102832								
Acetone	N.D.	6.	20	ug/l	87		35-181		
Benzene	N.D.	0.5	5	ug/l	100		77-121		
Carbon Tetrachloride	N.D.	1.	5	ug/l	110		65-137		
2-Chloro-1,3-butadiene	N.D.	1.	5	ug/l	101		73-125		
Chloroform	N.D.	0.8	5	ug/l	106		77-122		
2,3-Dichloro-1,3-butadiene	N.D.	1.	5	ug/l					
3,4-Dichloro-1-butene	N.D.	1.	5	ug/l	91		74-120		
1,3-Dichlorobutene-2 (total)	N.D.	1.	5	ug/l					
Dichlorodifluoromethane	N.D.	2.	5	ug/l	103		35-122		
1,1-Dichloroethane	N.D.	1.	5	ug/l	102		79-120		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	101		80-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	108		80-120		
Ethylbenzene	N.D.	0.8	5	ug/l	103		79-120		
Freon 113	N.D.	2.	10	ug/l	109		69-128		
Methyl Methacrylate	N.D.	1.	5	ug/l	86		62-120		
Methylene Chloride	N.D.	2.	5	ug/l	114		84-118		
Styrene	N.D.	1.	5	ug/l	101		77-120		
Tetrachloroethene	N.D.	0.8	5	ug/l	112		79-120		
Tetrahydrofuran	N.D.	4.	10	ug/l	85		52-156		
Toluene	N.D.	0.7	5	ug/l	105		79-120		
1,2,4-Trichlorobenzene	N.D.	1.	5	ug/l	97		65-120		
2,3,4-Trichlorobutene	N.D.	1.	5	ug/l	92		74-120		
cis-1,2,3-Trichlorobutene-2	N.D.	1.	5	ug/l					
trans-1,2,3-Trichlorobutene-2	N.D.	1.	5	ug/l					
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	103		66-126		
Trichloroethene	N.D.	1.	5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/l	104		65-130		
Vinyl Chloride	N.D.	1.	5	ug/l	101		63-120		
Xylene (Total)	N.D.	0.8	5	ug/l	103		77-120		

Batch number: 13175SLE026	Sample number(s): 7102819-7102828,7102830								
Acenaphthene	N.D.	3.	17	ug/kg	102		83-111		
Acetophenone	N.D.	17.	33	ug/kg	100		70-106		
Anthracene	N.D.	3.	17	ug/kg	104		82-118		
Benzo(a)anthracene	N.D.	3.	17	ug/kg	97		73-123		
Benzo(a)pyrene	N.D.	3.	17	ug/kg	107		80-123		
Benzo(b)fluoranthene	N.D.	3.	17	ug/kg	116		76-124		
Benzo(g,h,i)perylene	N.D.	3.	17	ug/kg	106		77-122		
Benzyl alcohol	N.D.	170.	500	ug/kg	105		78-115		
Di-n-butylphthalate	N.D.	67.	170	ug/kg	105		79-112		
4-Chloro-3-methylphenol	N.D.	17.	33	ug/kg	114		80-124		
Chrysene	N.D.	3.	17	ug/kg	99		69-119		
Dibenzofuran	N.D.	17.	33	ug/kg	105		78-116		
2,4-Dimethylphenol	N.D.	17.	33	ug/kg	116		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	170	ug/kg	100		75-124		
Fluoranthene	N.D.	3.	17	ug/kg	100		79-123		
Fluorene	N.D.	3.	17	ug/kg	106		81-117		
Hexachlorobutadiene	N.D.	17.	33	ug/kg	95		76-115		
Hexachloroethane	N.D.	33.	170	ug/kg	99		76-109		
Indeno(1,2,3-cd)pyrene	N.D.	3.	17	ug/kg	105		77-122		
2-Methylnaphthalene	N.D.	3.	17	ug/kg	97		82-120		
2-Methylphenol	N.D.	17.	33	ug/kg	112		75-126		
4-Methylphenol	N.D.	17.	33	ug/kg	106		73-124		
Naphthalene	N.D.	3.	17	ug/kg	101		77-115		
N-Nitrosodiethylamine	N.D.	17.	33	ug/kg	100		80-112		
N-Nitrosodimethylamine	N.D.	67.	170	ug/kg	94		67-116		
N-Nitrosodiphenylamine	N.D.	17.	33	ug/kg	105		83-118		
Di-n-octylphthalate	N.D.	67.	170	ug/kg	110		75-136		
Phenanthrene	N.D.	3.	17	ug/kg	102		77-119		
Pyrene	N.D.	3.	17	ug/kg	102		81-114		

Batch number: 13177WAB026	Sample number(s): 7102831								
Acenaphthene	N.D.	0.1	0.5	ug/l	98	99	79-110	0	30
Acenaphthylene	N.D.	0.1	0.5	ug/l	104	106	84-125	2	30
Acetophenone	N.D.	0.5	1	ug/l	86	87	71-110	2	30
Anthracene	N.D.	0.1	0.5	ug/l	99	102	82-116	3	30
Benzo(a)anthracene	N.D.	0.1	0.5	ug/l	111	111	79-119	0	30

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Quality Control SummaryClient Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(a)pyrene	N.D.	0.1	0.5	ug/l	99	104	82-116	5	30
Benzo(b)fluoranthene	N.D.	0.1	0.5	ug/l	101	105	78-119	3	30
Benzo(g,h,i)perylene	N.D.	0.1	0.5	ug/l	106	106	81-121	0	30
Benzyl alcohol	N.D.	5.	15	ug/l	88	87	60-106	1	30
Di-n-butylphthalate	N.D.	2.	5	ug/l	95	98	80-115	3	30
4-Chloro-3-methylphenol	N.D.	0.5	1	ug/l	102	100	77-119	2	30
Chrysene	N.D.	0.1	0.5	ug/l	106	107	76-116	1	30
Dibenzofuran	N.D.	0.5	1	ug/l	99	100	81-110	1	30
2,4-Dimethylphenol	N.D.	0.5	1	ug/l	98	97	78-117	1	30
2,6-Dinitrotoluene	N.D.	0.5	1	ug/l	108	107	84-117	0	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5	ug/l	100	100	78-117	0	30
Fluoranthene	N.D.	0.1	0.5	ug/l	103	106	81-121	3	30
Fluorene	N.D.	0.1	0.5	ug/l	103	105	80-114	2	30
Hexachlorobutadiene	N.D.	0.5	1	ug/l	98	99	61-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5	ug/l	106	106	83-121	0	30
2-Methylnaphthalene	N.D.	0.1	0.5	ug/l	91	93	80-115	2	30
2-Methylphenol	N.D.	0.5	1	ug/l	85	87	65-115	2	30
4-Methylphenol	N.D.	0.5	1	ug/l	83	84	54-112	1	30
Naphthalene	N.D.	0.1	0.5	ug/l	92	93	75-108	1	30
N-Nitrosodiethylamine	N.D.	0.5	1	ug/l	92	93	79-116	2	30
N-Nitrosodimethylamine	N.D.	2.	5	ug/l	59	58	37-83	2	30
N-Nitrosodiphenylamine	N.D.	0.5	1	ug/l	98	100	80-115	3	30
Di-n-octylphthalate	N.D.	2.	5	ug/l	93	95	72-129	2	30
Phenanthrene	N.D.	0.1	0.5	ug/l	96	99	76-113	3	30
Pyrene	N.D.	0.1	0.5	ug/l	97	98	81-112	0	30
Batch number: 131730002A	Sample number(s): 7102831								
Acetaldehyde	24	J 20.	60	ug/l	68	66	56-123	3	30
Batch number: 131770012A	Sample number(s): 7102819-7102828,7102830								
Acetaldehyde	N.D.	600.	1,000	ug/kg	70*		80-120		
Batch number: 131745705002	Sample number(s): 7102831								
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Beryllium	N.D.	0.00067	0.0050	mg/l	98		88-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	104		90-110		
Cobalt	N.D.	0.0013	0.0050	mg/l	103		90-110		
Copper	N.D.	0.0027	0.0100	mg/l	102		90-112		
Selenium	N.D.	0.0084	0.0200	mg/l	102		80-120		
Tin	N.D.	0.0029	0.0200	mg/l	102		90-110		
Vanadium	N.D.	0.0020	0.0050	mg/l	106		90-110		
Zinc	N.D.	0.0020	0.0200	mg/l	103		90-110		
Batch number: 131755713001	Sample number(s): 7102831								
Mercury	N.D.	0.00006	0.00020	mg/l	96		80-120		
		0							
Batch number: 131795708002	Sample number(s): 7102819-7102830								
Barium	N.D.	0.0330	0.500	mg/kg	98		80-120		
Beryllium	N.D.	0.0670	0.500	mg/kg	98		80-120		
Cadmium	N.D.	0.0760	0.500	mg/kg	100		80-120		
Chromium	N.D.	0.160	1.50	mg/kg	100		80-120		
Cobalt	N.D.	0.0990	0.500	mg/kg	101		80-120		
Copper	N.D.	0.290	1.00	mg/kg	100		80-120		
Tin	1.22	J 0.220	10.0	mg/kg	100		80-120		

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Vanadium	N.D.	0.130	0.500	mg/kg	102		80-120		
Zinc	0.295 J	0.200	2.00	mg/kg	102		80-120		
Batch number: 131795708002A	Sample number(s): 7102819-7102830								
Antimony	N.D.	0.0860	0.200	mg/kg	107		80-120		
Arsenic	N.D.	0.0840	0.400	mg/kg	105		80-120		
Lead	N.D.	0.0160	0.200	mg/kg	102		80-120		
Nickel	N.D.	0.0760	0.400	mg/kg	110		80-120		
Silver	N.D.	0.0260	0.100	mg/kg	109		80-120		
Thallium	N.D.	0.0300	0.100	mg/kg	104		80-120		
Batch number: 131795708002B	Sample number(s): 7102819-7102830								
Selenium	N.D.	0.100	0.400	mg/kg	110		80-120		
Batch number: 131795711002	Sample number(s): 7102819-7102830								
Mercury	N.D.	0.0100	0.100	mg/kg	95		80-120		
Batch number: 131796050004A	Sample number(s): 7102831								
Antimony	N.D.	0.00034	0.0010	mg/l	102		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	96		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	101		90-115		
Nickel	N.D.	0.00065	0.0020	mg/l	99		90-113		
Silver	N.D.	0.00011	0.00050	mg/l	99		90-115		
Thallium	N.D.	0.00015	0.00050	mg/l	96		80-120		
Batch number: 131796050004B	Sample number(s): 7102831								
Selenium	N.D.	0.00050	0.0020	mg/l	100		80-120		
Batch number: 13176117101A	Sample number(s): 7102831								
Total Cyanide	N.D.	0.0050	0.010	mg/l	92		90-110		
Batch number: 13178178201A	Sample number(s): 7102819-7102827, 7102829								
Chloride	N.D.	5.0	10.0	mg/kg	95		90-110		
Fluoride	N.D.	0.80	1.0	mg/kg	95		90-110		
Batch number: 13178178201B	Sample number(s): 7102830								
Chloride	N.D.	5.0	10.0	mg/kg	95		90-110		
Fluoride	N.D.	0.80	1.0	mg/kg	95		90-110		
Batch number: 13179102201A	Sample number(s): 7102819-7102827, 7102829-7102830								
Total Cyanide	N.D.	0.18	0.50	mg/kg	104		90-110		
Batch number: 13180655902B	Sample number(s): 7102831								
Chloride	N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	99		90-110		
Batch number: 13177057301A	Sample number(s): 7102819-7102830								
Ammonia	N.D.	17.0	51.0	mg/kg	94		89-101		
Batch number: 13178022101A	Sample number(s): 7102831								
Ammonia Nitrogen	N.D.	0.20	0.60	mg/l	94	95	85-105	1	5
Batch number: 13177820002A	Sample number(s): 7102819-7102830								
Moisture					100		99-101		
Moisture					100		99-101		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Moisture Duplicate					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: X131831AA Sample number(s): 7102819-7102828, 7102830 UNSPK: 7102826									
Acetone	65	84	31-195	17	30				
Benzene	96	101	55-143	4	30				
Carbon Tetrachloride	113	119	45-153	4	30				
2-Chloro-1,3-butadiene	99	104	51-152	4	30				
Chlorodifluoromethane	106	103	70-130	5	30				
Chloroform	108	110	61-142	2	30				
3,4-Dichloro-1-butene	89	91	43-125	0	30				
Dichlorodifluoromethane	110	113	26-151	2	30				
1,1-Dichloroethane	94	101	63-142	7	30				
cis-1,2-Dichloroethene	97	99	49-153	2	30				
trans-1,2-Dichloroethene	97	100	51-153	3	30				
Ethylbenzene	94	103	44-141	8	30				
Freon 113	102	102	56-156	1	30				
Methyl Methacrylate	127	120	42-134	6	30				
Methylene Chloride	97	101	49-160	4	30				
Styrene	90	96	35-134	6	30				
Tetrachloroethene	1*	14*	42-149	11	30				
Tetrahydrofuran	91	91	53-163	1	30				
Toluene	92	99	50-146	6	30				
1,2,4-Trichlorobenzene	70	70	10-136	1	30				
2,3,4-Trichlorobutene	95	97	60-119	0	30				
1,1,1-Trichloroethane	99	104	43-150	4	30				
Trichloroethene	104	107	53-144	3	30				
Trichlorofluoromethane	126	122	47-163	4	30				
Vinyl Chloride	96	102	50-154	6	30				
Xylene (Total)	91	98	44-136	7	30				
Batch number: Y131832AA Sample number(s): 7102831-7102832 UNSPK: P109463									
Acetone	91	91	33-159	1	30				
Benzene	105	103	72-134	1	30				
Carbon Tetrachloride	117	114	72-135	3	30				
2-Chloro-1,3-butadiene	107	105	63-154	2	30				
Chloroform	111	108	81-134	3	30				
3,4-Dichloro-1-butene	83	81	52-115	1	30				
Dichlorodifluoromethane	114	110	52-129	3	30				
1,1-Dichloroethane	106	105	84-129	1	30				
cis-1,2-Dichloroethene	107	103	80-141	4	30				
trans-1,2-Dichloroethene	115	112	81-142	3	30				
Ethylbenzene	108	106	71-134	2	30				
Freon 113	119	116	89-148	3	30				
Methyl Methacrylate	83	83	63-123	0	30				
Methylene Chloride	112	110	78-133	2	30				
Styrene	103	101	78-125	2	30				

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	119	116	80-128	3	30				
Tetrahydrofuran	87	82	43-164	5	30				
Toluene	111	108	80-125	3	30				
1,2,4-Trichlorobenzene	93	89	70-124	4	30				
2,3,4-Trichlorobutene	90	88	73-112	3	30				
1,1,1-Trichloroethane	105	102	69-140	3	30				
Trichloroethene	116	111	88-133	4	30				
Trichlorofluoromethane	119	115	64-146	3	30				
Vinyl Chloride	110	108	66-133	2	30				
Xylene (Total)	108	106	79-125	3	30				
Batch number: 13175SLE026 Sample number(s): 7102819-7102828,7102830 UNSPK: 7102826									
Acenaphthene	103	102	60-120	2	30				
Acetophenone	103	102	57-118	1	30				
Anthracene	106	103	41-142	4	30				
Benzo(a)anthracene	104	101	32-150	3	30				
Benzo(a)pyrene	108	107	33-145	2	30				
Benzo(b)fluoranthene	111	111	29-150	1	30				
Benzo(g,h,i)perylene	109	108	48-134	2	30				
Benzyl alcohol	109	110	32-145	0	30				
Di-n-butylphthalate	106	104	49-134	3	30				
4-Chloro-3-methylphenol	111	111	50-137	1	30				
Chrysene	97	95	33-142	3	30				
Dibenzofuran	104	103	60-120	2	30				
2,4-Dimethylphenol	112	114	39-147	0	30				
bis(2-Ethylhexyl)phthalate	98	97	38-151	2	30				
Fluoranthene	103	100	30-151	4	30				
Fluorene	104	103	55-128	1	30				
Hexachlorobutadiene	91	95	58-120	4	30				
Hexachloroethane	101	103	24-138	1	30				
Indeno(1,2,3-cd)pyrene	108	107	46-139	2	30				
2-Methylnaphthalene	97	97	45-134	1	30				
2-Methylphenol	112	114	32-146	1	30				
4-Methylphenol	108	108	31-150	0	30				
Naphthalene	98	100	35-141	1	30				
N-Nitrosodiethylamine	104	105	56-112	0	30				
N-Nitrosodimethylamine	87	92	50-123	6	30				
N-Nitrosodiphenylamine	109	102	59-135	7	30				
Di-n-octylphthalate	112	108	48-155	5	30				
Phenanthrene	104	101	34-147	4	30				
Pyrene	100	100	29-148	1	30				
Batch number: 131770012A Sample number(s): 7102819-7102828,7102830 UNSPK: 7102826									
Acetaldehyde	73*	77*	80-120	5	50				
Batch number: 131745705002 Sample number(s): 7102831 UNSPK: P098192 BKG: P098192									
Barium	104	103	78-118	1	20	0.0409	0.0401	2	20
Beryllium	102	101	87-114	2	20	N.D.	N.D.	0 (1)	20
Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	108	105	81-120	2	20	0.0026 J	0.0027 J	6 (1)	20
Cobalt	104	103	87-112	1	20	N.D.	N.D.	0 (1)	20
Copper	104	103	86-122	2	20	N.D.	0.0031 J	200* (1)	20

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398865

Reported: 07/17/13 at 08:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Selenium	103	104	75-125	1	20	N.D.	N.D.	0 (1) 20
Tin	105	104	90-110	1	20	N.D.	N.D.	0 (1) 20
Vanadium	109	108	90-111	1	20	0.0044 J	0.0051	15 (1) 20
Zinc	104	104	85-117	0	20	0.0077 J	0.0076 J	1 (1) 20
Batch number: 131755713001	Sample number(s): 7102831 UNSPK: P104479 BKG: P104479							
Mercury	99	96	80-120	3	20	N.D.	N.D.	0 (1) 20
Batch number: 131795708002	Sample number(s): 7102819-7102830 UNSPK: 7102826 BKG: 7102826							
Barium	101	103	75-125	2	20	5.04	4.43	13 20
Beryllium	100	102	83-111	1	20	N.D.	N.D.	0 (1) 20
Cadmium	100	103	75-125	3	20	N.D.	N.D.	0 (1) 20
Chromium	101	103	75-125	2	20	2.07	1.86	11 (1) 20
Cobalt	100	102	78-113	2	20	0.649	0.602	7 (1) 20
Copper	100	103	75-125	3	20	1.12	1.28	13 (1) 20
Tin	100	102	80-110	2	20	1.48 J	1.50 J	2 (1) 20
Vanadium	103	104	75-125	1	20	3.68	3.35	9 20
Zinc	102	106	75-125	4	20	3.09	2.88	7 (1) 20
Batch number: 131795708002A	Sample number(s): 7102819-7102830 UNSPK: 7102826 BKG: 7102826							
Antimony	102	104	75-125	2	20	N.D.	N.D.	0 (1) 20
Arsenic	131*	117	75-125	9	20	0.609	0.716	16 (1) 20
Lead	117	106	75-125	8	20	1.06	1.15	8 20
Nickel	129*	112	75-125	12	20	1.75	1.82	4 (1) 20
Silver	121	111	75-125	9	20	N.D.	N.D.	0 (1) 20
Thallium	116	114	75-125	2	20	N.D.	N.D.	0 (1) 20
Batch number: 131795708002B	Sample number(s): 7102819-7102830 UNSPK: 7102826 BKG: 7102826							
Selenium	124	109	75-125	14	20	N.D.	N.D.	0 (1) 20
Batch number: 131795711002	Sample number(s): 7102819-7102830 UNSPK: 7102826 BKG: 7102826							
Mercury	95	95	80-120	1	20	N.D.	N.D.	0 (1) 20
Batch number: 131796050004A	Sample number(s): 7102831 UNSPK: P102555 BKG: P102555							
Antimony	103	104	75-125	1	20	N.D.	N.D.	0 (1) 20
Arsenic	106	102	75-125	4	20	0.0017 J	0.0019 J	15 (1) 20
Lead	104	102	83-120	2	20	0.00037 J	0.00038 J	1 (1) 20
Nickel	106	106	85-117	0	20	N.D.	N.D.	0 (1) 20
Silver	104	101	82-116	2	20	N.D.	N.D.	0 (1) 20
Thallium	106	104	85-114	3	20	N.D.	N.D.	0 (1) 20
Batch number: 131796050004B	Sample number(s): 7102831 UNSPK: P102555 BKG: P102555							
Selenium	104	106	75-125	2	20	N.D.	N.D.	0 (1) 20
Batch number: 13176117101A	Sample number(s): 7102831 UNSPK: P097349 BKG: P097349							
Total Cyanide	74		43-137			N.D.	N.D.	0 (1) 20
Batch number: 13178178201A	Sample number(s): 7102819-7102827,7102829 UNSPK: 7102826 BKG: 7102826							
Chloride	98		90-110			N.D.	N.D.	0 (1) 20
Fluoride	78*		90-110			N.D.	N.D.	0 (1) 20
Batch number: 13178178201B	Sample number(s): 7102830 UNSPK: 7102830 BKG: 7102830							

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloride	97		90-110			N.D.	N.D.	0 (1)	20
Fluoride	88*		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13179102201A	Sample number(s): 7102819-7102827,7102829-7102830 UNSPK: 7102826 BKG: 7102826								
Total Cyanide	107		68-134			N.D.	N.D.	0 (1)	20
Batch number: 13180655902B	Sample number(s): 7102831 UNSPK: P102587 BKG: P102587								
Chloride	104		90-110			16.5	16.6	0	20
Fluoride	106		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13177057301A	Sample number(s): 7102819-7102830 UNSPK: 7102826 BKG: 7102826								
Ammonia	89	90	78-109	1	5	N.D.	N.D.	0 (1)	10
Batch number: 13178022101A	Sample number(s): 7102831 BKG: P103412								
Ammonia Nitrogen						24.1	24.8	3	6
Batch number: 13177820002A	Sample number(s): 7102819-7102830 BKG: 7102826								
Moisture						3.5	3.6	5	5
Moisture						3.5	3.6	5	5
Moisture Duplicate						3.5	3.6	5	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL Volatiles
Batch number: X131831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7102819	106	106	97	97
7102820	107	105	96	98
7102821	102	108	101	93
7102822	108	104	97	98
7102823	108	105	95	99
7102824	108	103	95	99
7102825	103	101	99	92
7102826	110	103	101	87
7102827	105	100	99	100
7102828	107	102	99	101
7102830	108	105	95	97
Blank	102	100	98	97
LCS	102	97	100	102
MS	105	100	99	100
MSD	107	102	99	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: GC/MS Volatiles

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398865

Reported: 07/17/13 at 08:34 AM

Surrogate Quality Control

Batch number: Y131832AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7102831	89	92	91	87
7102832	89	90	92	87
Blank	89	90	92	88
LCS	90	95	93	90
MS	91	92	94	90
MSD	90	93	93	89
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Appendix IX Semivolatiles

Batch number: 13175SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7102819	106	108	104	97	98	109
7102820	101	105	112	101	96	111
7102821	105	107	103	100	99	107
7102822	105	106	98	95	97	106
7102823	103	96	64	97	97	111
7102824	105	105	99	102	102	109
7102825	84	79	26*	6*	84	88
7102826	99	102	103	94	91	101
7102827	113	111	108	104	104	109
7102828	112	114	102	104	101	109
7102830	102	103	98	99	99	104
Blank	90	94	107	94	94	101
LCS	109	111	107	104	101	113
MS	113	111	108	104	104	109
MSD	112	114	102	104	101	109
Limits:	51-127	48-136	28-139	54-124	58-121	61-137

Analysis Name: Appendix IX Semivolatiles

Batch number: 13177WAB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7102831	29	43	99	88	93	69
Blank	37	48	106	89	93	106
LCS	46	56	120	93	97	106
LCSD	46	55	122	92	98	106
Limits:	10-74	10-98	22-150	60-123	63-114	63-141

Analysis Name: Formaldehyde

Batch number: 131730002A

	Butyraldehyde
7102831	75
Blank	72
LCS	83
LCSD	80
Limits:	45-145

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/17/13 at 08:34 AM

Group Number: 1398865

Surrogate Quality Control

Analysis Name: Formaldehyde
Batch number: 131770012A
Butyraldehyde

7102819	113
7102820	115
7102821	105
7102822	111
7102823	85
7102824	105
7102825	107
7102826	107
7102827	98
7102828	101
7102830	95
Blank	97
LCS	82
MS	98
MSD	101

Limits: 64-126

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
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For Lancaster Laboratories Use Only

Group No.: 1398865 Sample Nos.: 7102819-32

Acc't: 07032

SCR No.: 141118

Cooler No.:

25756

Cooler Temperature upon receipt:

Container No.: 8

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



2 of 2

Group No.: 1398865 Sample Nos.: 7102819-32

Cooler No.

0.4

Container No.: 5

25756

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32

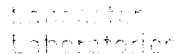
Cooler No.: 0261

Cooler Temperature upon receipt: 014 °C Container No.: 8

25746

[illegible]

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32

Cooler No.: 206

•

Container No.: 8

25747

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32

Cooler No.: 222

°C

Container No.: 8

25748

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32 22617 **25750**
 Acc't: 07032 SCR No.: 141118 Cooler No.: 22617
 Cooler Temperature upon receipt: 0.4 °C Container No.: 8

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300
Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1398865 Sample Nos.: 710 2819-32

Acc't: 07032

SCR No.: 141118

Cooler No.:

25751

Cooler Temperature upon receipt: 0.4 °C

Container No.: 8

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1398865 Sample Nos.: 7102819-32 22617 **25752**
 Acc't: 07032 SCR No.: 141118 Cooler No.: 22617
 Cooler Temperature upon receipt: 0.4 °C Container No.: 8

Acc't: 07032

SCR No.: 141118

Cooler No.:

Cooler Temperature upon receipt:

Container No.: 8

[illegible]

Facility Contact: Steve DeVries

Facility Contact Phone No.: 231-893-9263

Facility Address: DuPont Montague

Job No.: 9267-7720100C-WH06507756

6270 Wilkes Road

Release No.:

Montague MI 49437

PO Number: LBIO-66380

Sampler(s):

Project Name: REM INVESTIGATION SOIL 6/13

[illegible]

Turnaround Time Requested (please circle) : Standard RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by: <i>SDel</i>	Date <i>6/17/13</i>	Time <i>13:00</i>	Bottles Received by:	Date:	Time:
Bottles Relinquished by: <i>[Signature]</i>	Date <i>6/20/13</i>	Time <i>1700</i>	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by: <i>Cash</i>	Date <i>6/21/13</i>	Time <i>0905</i>

Bottles Relinquished by: 	Date: 11/20/13	Time: 1700	Bottles Received by:	Date:	Time:
--	----------------	------------	----------------------	-------	-------

Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date:	Time:
--------------------------	-------	-------	----------------------	-------	-------

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date	Time
			<i>Cash</i>	6/2/13	0925

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

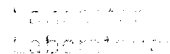


1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32 22617
Acc't: 07032 SCR No.: 141118 Cooler No.: 22617 25754
Cooler Temperature upon receipt: 0.4 °C Container No.: 8

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1398865 Sample Nos.: 7102819-32
 Acc't: 07032 SCR No.: 141118 Cooler No.: 22617 **25753**
 Cooler Temperature upon receipt: 0.4 °C Container No.: 8

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300
Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1398865 Sample Nos.: 7102819-32 20604 **25755**
 Acc't: 07032 SCR No.: 141118 Cooler No.: 20604
 Cooler Temperature upon receipt: 0.3 °C Container No.: 7

Acc't: 07032

SCR No.: 141118

Cooler No.:

Cooler Temperature upon receipt:

Container No : 7

[illegible]

Environmental Sample Administration
Receipt Documentation Log

Grp # 1398865

Client/Project: Dupont MontagueShipping Container Sealed: YES NODate of Receipt: 6/21/13Custody Seal Present *: YES NOTime of Receipt: 0405

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.7	TB	WI	Y	L	
2		0.5					
3		0.7					
4		0.6					
5		1.7					
6		0.3					

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Received MS + MSD ^{Containers} ~~vials~~ for R10613-2013GW-01
~~missing 3 vials for R10613-2013GW-06~~ found in
③ missing 3 vials for R10613-2013GW-09 different cooler
GE 6/21/13

Unpacker Signature/Emp#: CCisher 3647Date/Time: 6/21/13 1106

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration
Receipt Documentation LogClient/Project: Dupont MontagueDate of Receipt: 6/21/13Time of Receipt: 0905Source Code: 50-1Shipping Container Sealed: YES NOCustody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.3	TB	WI	Y	L	
2	↓	0.4	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Cash 3647 Date/Time: 6/21/13 1106

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-26022-1

Client Project/Site: MTG - Remedial Invest 6/13

For:

URS Corporation

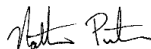
C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, Delaware 19713

Attn: Ms. Dyana Sagges



Authorized for release by:

6/27/2013 9:21:02 AM

Nathan Pietras, Project Manager II

nathan.pietras@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Job ID: 240-26022-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: URS Corporation

Project: MTG - Remedial Invest 6/13

Report Number: 240-26022-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

SULFIDE

Samples R10613-2013FNL-01-(3'-5') (240-26022-1), R10613-2013FNL-02-(6'-8') (240-26022-2), R10613-2013FNL-03-(1'-3') (240-26022-3), R10613-2013FNL-04-(6'-8') (240-26022-4), R10613-2013FNL-05-(4'-6') (240-26022-5), R10613-2013FNL-06-(5'-10.5') (240-26022-6), R10613-2013FNL-07-(3.5'-5.5') (240-26022-7), R10613-2013FNL-08-(4'-6') (240-26022-8) and R10613-2013FNL-05-(4'-6')D (240-26022-9) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 06/25/2013 and 06/26/2013.

No difficulties were encountered during the sulfide analysis.

All quality control parameters were within the acceptance limits.

SULFIDE

Sample EB-0613-FNL-062013 (240-26022-10) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 06/24/2013.

Case Narrative

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Job ID: 240-26022-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No difficulties were encountered during the sulfide analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples R10613-2013FNL-01-(3'-5') (240-26022-1), R10613-2013FNL-02-(6'-8') (240-26022-2), R10613-2013FNL-03-(1'-3') (240-26022-3), R10613-2013FNL-04-(6'-8') (240-26022-4), R10613-2013FNL-05-(4'-6') (240-26022-5), R10613-2013FNL-06-(5'-10.5') (240-26022-6), R10613-2013FNL-07-(3.5'-5.5') (240-26022-7), R10613-2013FNL-08-(4'-6') (240-26022-8) and R10613-2013FNL-05-(4'-6')D (240-26022-9) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 06/24/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

Method Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Method	Method Description	Protocol	Laboratory
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-26022-1	R10613-2013FNL-01-(3'-5')	Solid	06/20/13 10:50	06/21/13 09:30
240-26022-2	R10613-2013FNL-02-(6'-8')	Solid	06/20/13 13:25	06/21/13 09:30
240-26022-3	R10613-2013FNL-03-(1'-3')	Solid	06/20/13 09:00	06/21/13 09:30
240-26022-4	R10613-2013FNL-04-(6'-8')	Solid	06/20/13 16:15	06/21/13 09:30
240-26022-5	R10613-2013FNL-05-(4'-6')	Solid	06/20/13 13:25	06/21/13 09:30
240-26022-6	R10613-2013FNL-06-(5'-10.5')	Solid	06/20/13 15:50	06/21/13 09:30
240-26022-7	R10613-2013FNL-07-(3.5'-5.5')	Solid	06/20/13 09:45	06/21/13 09:30
240-26022-8	R10613-2013FNL-08-(4'-6')	Solid	06/20/13 11:30	06/21/13 09:30
240-26022-9	R10613-2013FNL-05-(4'-6')D	Solid	06/20/13 13:25	06/21/13 09:30
240-26022-10	EB-0613-FNL-062013	WQ	06/20/13 16:40	06/21/13 09:30

TestAmerica Canton

Detection Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-01-(3'-5')

Lab Sample ID: 240-26022-1

No Detections.

Client Sample ID: R10613-2013FNL-02-(6'-8')

Lab Sample ID: 240-26022-2

No Detections.

Client Sample ID: R10613-2013FNL-03-(1'-3')

Lab Sample ID: 240-26022-3

No Detections.

Client Sample ID: R10613-2013FNL-04-(6'-8')

Lab Sample ID: 240-26022-4

No Detections.

Client Sample ID: R10613-2013FNL-05-(4'-6')

Lab Sample ID: 240-26022-5

No Detections.

Client Sample ID: R10613-2013FNL-06-(5'-10.5')

Lab Sample ID: 240-26022-6

No Detections.

Client Sample ID: R10613-2013FNL-07-(3.5'-5.5')

Lab Sample ID: 240-26022-7

No Detections.

Client Sample ID: R10613-2013FNL-08-(4'-6')

Lab Sample ID: 240-26022-8

No Detections.

Client Sample ID: R10613-2013FNL-05-(4'-6')D

Lab Sample ID: 240-26022-9

No Detections.

Client Sample ID: EB-0613-FNL-062013

Lab Sample ID: 240-26022-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-01-(3'-5')

Lab Sample ID: 240-26022-1

Date Collected: 06/20/13 10:50

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		31	23	mg/Kg	☼	06/25/13 06:54	06/25/13 12:54	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-02-(6'-8')

Lab Sample ID: 240-26022-2

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 96.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		31	23	mg/Kg	☼	06/25/13 06:54	06/25/13 12:59	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-03-(1'-3')

Lab Sample ID: 240-26022-3

Date Collected: 06/20/13 09:00

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 94.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		32	23	mg/Kg	☼	06/25/13 06:54	06/25/13 13:05	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-04-(6'-8')

Lab Sample ID: 240-26022-4

Date Collected: 06/20/13 16:15

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 77.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		39	28	mg/Kg	☼	06/25/13 06:54	06/25/13 13:10	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-05-(4'-6')

Lab Sample ID: 240-26022-5

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 96.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		31	23	mg/Kg	☼	06/25/13 06:54	06/25/13 13:15	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-06-(5'-10.5')

Lab Sample ID: 240-26022-6

Date Collected: 06/20/13 15:50

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 91.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		33	24	mg/Kg	☼	06/25/13 06:54	06/25/13 13:20	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-07-(3.5'-5.5')

Lab Sample ID: 240-26022-7

Date Collected: 06/20/13 09:45

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 96.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		31	23	mg/Kg	☼	06/26/13 10:08	06/26/13 12:03	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-08-(4'-6')

Lab Sample ID: 240-26022-8

Date Collected: 06/20/13 11:30

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 94.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		32	23	mg/Kg	☼	06/26/13 10:08	06/26/13 12:03	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-05-(4'-6')D

Lab Sample ID: 240-26022-9

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Percent Solids: 94.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		32	23	mg/Kg	☼	06/26/13 10:08	06/26/13 12:03	1

Client Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: EB-0613-FNL-062013

Lab Sample ID: 240-26022-10

Date Collected: 06/20/13 16:40

Matrix: WQ

Date Received: 06/21/13 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		3.0	0.94	mg/L		06/24/13 11:43	06/24/13 15:24	1

QC Sample Results

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-91098/1-A

Matrix: Water

Analysis Batch: 91122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		3.0	0.94	mg/L		06/24/13 11:43	06/24/13 15:07	1

Lab Sample ID: LCS 240-91098/2-A

Matrix: Water

Analysis Batch: 91122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.80	7.60		mg/L		86	70 - 130

Lab Sample ID: MB 240-91202/9-A

Matrix: Solid

Analysis Batch: 91298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		30	22	mg/Kg		06/25/13 06:54	06/25/13 12:23	1

Lab Sample ID: LCS 240-91202/10-A

Matrix: Solid

Analysis Batch: 91298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	79.0	66.9		mg/Kg		85	70 - 130

Lab Sample ID: MB 240-91462/6-A

Matrix: Solid

Analysis Batch: 91510

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		30	22	mg/Kg		06/26/13 10:08	06/26/13 12:03	1

Lab Sample ID: LCS 240-91462/7-A

Matrix: Solid

Analysis Batch: 91510

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	80.6	65.9		mg/Kg		82	70 - 130

Lab Sample ID: 240-26022-7 MS

Matrix: Solid

Analysis Batch: 91510

Client Sample ID: R10613-2013FNL-07-(3.5'-5.5')

Prep Type: Total/NA

Prep Batch: 91462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		82.7	71.6		mg/Kg	☼	87	10 - 154

Lab Sample ID: 240-26022-7 MSD

Matrix: Solid

Analysis Batch: 91510

Client Sample ID: R10613-2013FNL-07-(3.5'-5.5')

Prep Type: Total/NA

Prep Batch: 91462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD Limit
Sulfide	ND		82.2	63.0		mg/Kg	☼	77	10 - 154	13 20

TestAmerica Canton

QC Sample Results

Client: URS Corporation

Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

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TestAmerica Canton

QC Association Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

General Chemistry

Prep Batch: 91098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-10	EB-0613-FNL-062013	Total/NA	WQ	9030B	
LCS 240-91098/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 240-91098/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 91122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-10	EB-0613-FNL-062013	Total/NA	WQ	9034	91098
LCS 240-91098/2-A	Lab Control Sample	Total/NA	Water	9034	91098
MB 240-91098/1-A	Method Blank	Total/NA	Water	9034	91098

Analysis Batch: 91137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-1	R10613-2013FNL-01-(3'-5')	Total/NA	Solid	Moisture	
240-26022-2	R10613-2013FNL-02-(6'-8')	Total/NA	Solid	Moisture	
240-26022-3	R10613-2013FNL-03-(1'-3')	Total/NA	Solid	Moisture	
240-26022-4	R10613-2013FNL-04-(6'-8')	Total/NA	Solid	Moisture	
240-26022-5	R10613-2013FNL-05-(4'-6')	Total/NA	Solid	Moisture	
240-26022-6	R10613-2013FNL-06-(5'-10.5')	Total/NA	Solid	Moisture	
240-26022-7	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	Moisture	
240-26022-7 DU	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	Moisture	
240-26022-8	R10613-2013FNL-08-(4'-6')	Total/NA	Solid	Moisture	
240-26022-9	R10613-2013FNL-05-(4'-6')D	Total/NA	Solid	Moisture	

Prep Batch: 91202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-1	R10613-2013FNL-01-(3'-5')	Total/NA	Solid	9030B	
240-26022-2	R10613-2013FNL-02-(6'-8')	Total/NA	Solid	9030B	
240-26022-3	R10613-2013FNL-03-(1'-3')	Total/NA	Solid	9030B	
240-26022-4	R10613-2013FNL-04-(6'-8')	Total/NA	Solid	9030B	
240-26022-5	R10613-2013FNL-05-(4'-6')	Total/NA	Solid	9030B	
240-26022-6	R10613-2013FNL-06-(5'-10.5')	Total/NA	Solid	9030B	
LCS 240-91202/10-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 240-91202/9-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 91298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-1	R10613-2013FNL-01-(3'-5')	Total/NA	Solid	9034	91202
240-26022-2	R10613-2013FNL-02-(6'-8')	Total/NA	Solid	9034	91202
240-26022-3	R10613-2013FNL-03-(1'-3')	Total/NA	Solid	9034	91202
240-26022-4	R10613-2013FNL-04-(6'-8')	Total/NA	Solid	9034	91202
240-26022-5	R10613-2013FNL-05-(4'-6')	Total/NA	Solid	9034	91202
240-26022-6	R10613-2013FNL-06-(5'-10.5')	Total/NA	Solid	9034	91202
LCS 240-91202/10-A	Lab Control Sample	Total/NA	Solid	9034	91202
MB 240-91202/9-A	Method Blank	Total/NA	Solid	9034	91202

Prep Batch: 91462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-7	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9030B	
240-26022-7 MS	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9030B	
240-26022-7 MSD	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9030B	
240-26022-8	R10613-2013FNL-08-(4'-6')	Total/NA	Solid	9030B	

TestAmerica Canton

QC Association Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

General Chemistry (Continued)

Prep Batch: 91462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-9	R10613-2013FNL-05-(4'-6')D	Total/NA	Solid	9030B	
LCS 240-91462/7-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 240-91462/6-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 91510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-26022-7	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9034	91462
240-26022-7 MS	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9034	91462
240-26022-7 MSD	R10613-2013FNL-07-(3.5'-5.5')	Total/NA	Solid	9034	91462
240-26022-8	R10613-2013FNL-08-(4'-6')	Total/NA	Solid	9034	91462
240-26022-9	R10613-2013FNL-05-(4'-6')D	Total/NA	Solid	9034	91462
LCS 240-91462/7-A	Lab Control Sample	Total/NA	Solid	9034	91462
MB 240-91462/6-A	Method Blank	Total/NA	Solid	9034	91462

Lab Chronicle

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-01-(3'-5')

Lab Sample ID: 240-26022-1

Date Collected: 06/20/13 10:50

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 12:54	JB	TAL CAN

Client Sample ID: R10613-2013FNL-02-(6'-8')

Lab Sample ID: 240-26022-2

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 12:59	JB	TAL CAN

Client Sample ID: R10613-2013FNL-03-(1'-3')

Lab Sample ID: 240-26022-3

Date Collected: 06/20/13 09:00

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 13:05	JB	TAL CAN

Client Sample ID: R10613-2013FNL-04-(6'-8')

Lab Sample ID: 240-26022-4

Date Collected: 06/20/13 16:15

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 13:10	JB	TAL CAN

Client Sample ID: R10613-2013FNL-05-(4'-6')

Lab Sample ID: 240-26022-5

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 13:15	JB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Client Sample ID: R10613-2013FNL-06-(5'-10.5')

Lab Sample ID: 240-26022-6

Date Collected: 06/20/13 15:50

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 14:58	KG	TAL CAN
Total/NA	Prep	9030B			91202	06/25/13 06:54	LG	TAL CAN
Total/NA	Analysis	9034		1	91298	06/25/13 13:20	JB	TAL CAN

Client Sample ID: R10613-2013FNL-07-(3.5'-5.5')

Lab Sample ID: 240-26022-7

Date Collected: 06/20/13 09:45

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 15:02	KG	TAL CAN
Total/NA	Prep	9030B			91462	06/26/13 10:08	JB	TAL CAN
Total/NA	Analysis	9034		1	91510	06/26/13 12:03	JB	TAL CAN

Client Sample ID: R10613-2013FNL-08-(4'-6')

Lab Sample ID: 240-26022-8

Date Collected: 06/20/13 11:30

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 15:02	KG	TAL CAN
Total/NA	Prep	9030B			91462	06/26/13 10:08	JB	TAL CAN
Total/NA	Analysis	9034		1	91510	06/26/13 12:03	JB	TAL CAN

Client Sample ID: R10613-2013FNL-05-(4'-6')D

Lab Sample ID: 240-26022-9

Date Collected: 06/20/13 13:25

Matrix: Solid

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	91137	06/24/13 15:02	KG	TAL CAN
Total/NA	Prep	9030B			91462	06/26/13 10:08	JB	TAL CAN
Total/NA	Analysis	9034		1	91510	06/26/13 12:03	JB	TAL CAN

Client Sample ID: EB-0613-FNL-062013

Lab Sample ID: 240-26022-10

Date Collected: 06/20/13 16:40

Matrix: WQ

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			91098	06/24/13 11:43	JB	TAL CAN
Total/NA	Analysis	9034		1	91122	06/24/13 15:24	JB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Certification Summary

Client: URS Corporation
Project/Site: MTG - Remedial Invest 6/13

TestAmerica Job ID: 240-26022-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: ☐

Project Manager: George Gregory Site Contact: Steve DeVries Date: 6/20/13

TestAmerica Laboratories, Inc.

COC No: 1 of 1 COCs

Company Name: URS CORP

Address: 6220 Wilkes Road Montague, MI

City/State/Zip: 48864

Phone: 517-241-1111

FAX: 517-241-1111

Project Name: DUPONT MONTAGUE

Site: 6220 Wilkes Road Montague, MI

PO #

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Sample Identification

Sample Date

Sample Time

Type

Matrix

of Cont.

Sample Specific Notes:

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

Sample Specific Notes:

Sample Specific Notes:

Sample Specific Notes:

Sample Specific Notes:

Sample Specific Notes:

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Sample Specific Notes:

Sample Specific Notes:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Special Instructions/QC Requirements & Comments:

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Custody Seal No.: URS CORP

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

TestAmerica Canton Sample Receipt Form/Narrative				Login # : <u>26022</u>	
Canton Facility					
Client <u>URS / Dupont</u>		Site Name <u>Montague</u>		Cooler unpacked by: <u>Derry Burns</u>	
Cooler Received on <u>6/21/13</u>		Opened on <u>6/21/13</u>			
FedEx: 1 st Grd <u>Exp</u> UPS FAS Stetson		Client Drop Off		TestAmerica Courier Other _____	
TestAmerica Cooler # _____		Foam Box <u>Client Cooler</u>		Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice Dry Ice Water		None	
1. Cooler temperature upon receipt IR GUN# A (CF -1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN# 4 (CF 0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN# 5 (CF +1 °C) Observed Cooler Temp. <u>1.4</u> °C Corrected Cooler Temp. <u>2.4</u> °C IR GUN# 8 (CF -0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
☐ See Multiple Cooler Form					
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u> ☒ Yes ☐ No -Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA -Were custody seals on the bottle(s)? ☒ Yes ☐ No					
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No					
4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No					
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No					
6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No					
7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No					
8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No					
9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No					
10. Were sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA pH Strip Lot# <u>HC376062</u>					
11. Were VOAs on the COC? ☒ Yes ☐ No					
12. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA					
13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ No					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: <u>[Signature]</u>
<u>R10613-2013 FNL-02-(618') COC time = 1525, Label</u> <u>time = 1325 - will log Label time</u>		
15. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
16. SAMPLE PRESERVATION		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
EB-0613-FNL-062013	240-26022-A-10	Plastic 500ml - with Zn Acetate and	>9	_____	_____
EB-0613-FNL-062013	240-26022-B-10	Plastic 500ml - with Zn Acetate and	>9	_____	_____