EPA Region 5 Records Ctr.
277731

Comprehensive Site Investigation Report

Johns Manville Manufacturing Facility
1871 North Pershing Road
Waukegan, Illinois 60087

LPC #0971900014

October 17, 2002
Revision 0

Prepared for

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Volume II

Appendices E – G

LFR
LEVINE • FRICKE

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APPENDIX E

Log of Borehole: A-1

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Concrete***	
					1		***Sand*** Yellowish brown (10 yr 4/6), dry, loose, gravelly	
1	Tube		0					
			0		2			
					3			
					4			
2	Tube		0		5			
			0		6			
					7			
					8			
3	Tube		400		9		***Sand*** Gray (10 yr 4/1), wet, medium dense	
			120		10			
					11		***Sand*** Dark gray (10 yr 3/1), hard, damp	
					12		***Gravelly Sand*** Gray (10 yr 3/1), wet, medium dense, fine to medium sand	
							End of Borehole	
					13			
					14			
					15			

Log of Borehole: A-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand Yellowish brown (10 yr 5/4), dry, loose, gravelly	
			50		1			
1	Tube				2			
			137		3			
					4			
			345		5			
2	Tube				6			
			800		7			
					8		***Sand*** Gray (10 yr 4/1), wet @ 9', medium dense	
			400		9			
3	Tube				10			
			100		11		***Clay*** Black, moist	
							Sand Gray (10 yr 4/1), wet, medium dense	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: AB-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Grass				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		17.1		0–3		***Gravel*** Sand, ash, fill material	
					3–4		***Sand*** Dark yellowish brown (10 yr 4/4), dry, loose, very fine gravel	
2	Tube		796 41		4–8		***Sand*** Gray (10 yr 4/1), wet, medium dense, fine grain, strong odor	
					8		End of Borehole	

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: B-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete*** 20" thick	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		2		***Sand*** Yellowish brown (10 yr 5/4), dry to damp @ 11.6', loose, well graded gravel	
2	Tube		0		6			
3	Tube		0.4		10			
4	Tube		0.3		14		***Sand*** Gray (10 yr 4/1), wet, medium dense	
					15		***Silt*** Black (10 yr 2/1), damp	
					16		***Sand*** Gray (10 yr 4/1), wet, medium dense	
							End of Borehole	

Log of Borehole: B-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		***Sand*** Yellowish brown (10yr 4/4), dry, loose, gravel	
1	Tube		0.5		2			
					3			
					4			
			0.7		5			
2	Tube				6			
			1.0		7			
					8			
			0.5		9		***Sand*** Gray (10 yr 4/1), wet, medium dense, well graded gravel	
3	Tube				10			
			1.0		11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: BA-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/2/98
Surface Conditions: Asphalt				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface 1" Black asphalt sand and coarse aggregate	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Fill White, fill material 28"-38"	
1	Tube				1 2			
					3		Tar paper	
					4			
					5		White fill material	
2	Tube				6		***Sand*** Yellowish brown, moist, loose, very fine grain	
					7			
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: BA-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Asphalt				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller:	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface 1" Black asphalt	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1		***Fill*** Ash, sand, white, granular fill, tar paper	
					2			
					3			
					4			
					5			
2	Tube				6			
					7		White, fill material	
					8			
					9		***Sand*** Yellowish brown, wet, very fine, loose	
3	Tube				10			
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: BA-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/2/98
Surface Conditions: Asphalt				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller:	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface 1" Black asphalt	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1 2 3		***Fill*** Ash, tar paper, gray granular	
2	Tube				4 5 6			
					7		***Sand*** Yellowish brown, wet, fine to medium grain	
					8		End of Borehole	
					9 10 11 12 13 14 15			

Log of Borehole: C-1

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12	**Elevation:**	**Date Start:** 11/17/98
Surface Conditions: Concrete				**Date End:** 11/17/98
Drilling Contractor: Rock & Soil		**Driller:** J. Hoover	**Geologist/Engineer:** J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		1, 2, 3		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain, trace well rounded gravel	
2	Tube		0		4, 5, 6, 7			
					8		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain, trace well rounded gravel, fine/coarse sand mix	
3	Tube		0 69.4		9, 10, 11		***Sand*** Dark grayish brown (10 yr 4/2), saturated, medium dense, trace coarse sand, well grounded gravel	
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: C-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, fine to medium, well graded, well rounded gravel	
1	Tube		0		2			
					3			
					4			
			0		5			
2	Tube				6			
			9.0		7			
					8		Grades to brown (10 yr 4/3)	
			35		9			
3	Tube				10		Wet	
			200		11		***Sand*** Gray (10 yr 4/1), saturated, fine to medium sand, well graded, well rounded gravel	
					12			
					13			
4	Tube				14			
			11.6		15			
					16		End of Borehole	

Log of Borehole: C-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/17/98
Surface Conditions: Concrete				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
1	Tube		0.3 0.3		1 2 3		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, well rounded gravel, poorly graded, no odor	
2	Tube		0.3 0.4		4 5 6 7			
3	Tube		0.3 0.3		8 9 10 11		***Sand*** Dark gray (10 yr 4/1), saturated, medium dense, no odor, very fine to medium sand, trace gravel	
					12 13 14 15		End of Borehole	

Log of Borehole: C-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 01/06/99
Surface Conditions: Concrete				Date End: 01/06/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
1	Tube		0		1, 2, 3		***Sand*** Brownish yellow (10 yr 6/6), dry, loose, very fine grain, no odor, well graded gravels, no evidence of acm	
2	Tube		0		4, 5, 6, 7, 8, 9		Color grades to yellowish brown (10 yr 5/6)	
3	Tube		0		10, 11		***Sand*** Brownish yellow (10 yr 6/6), wet, medium dense, fine to coarse grain, no odor, no evidence of acm	
					12, 13, 14, 15		End of Borehole	

Log of Borehole: C-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 01/06/99
Surface Conditions: Concrete				Date End: 01/06/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Concrete***	
1	Tube		0		1, 2, 3, 4, 5, 6, 7		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, gravel	
2	Tube		0		8, 9, 10, 11		***Sand*** Yellowish brown (10 yr 5/6), wet, medium dense, no odor, no evidence of acm	
3	Tube		0		12		End of Borehole	
					13, 14, 15			

Log of Borehole: CD-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Gravel				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube		0		0–2		***Gravel*** Ash, fill material	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					2–4		***Sand*** Yellowish brown (10 yr 5/4), moist, fine grain, loose	
2	Tube		183		4–5		***Gravel***	
					5–7		***Sand*** Gray (10 yr 4/1), wet, fine grain, medium dense	
			120		7–8		***Sand*** Gravelly, gray (10 yr 4/1), coarse sand, poorly graded gravel, loose, odor mineral spirits	
					8		End of Borehole	

Log of Borehole: D-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Sand Yellowish brown (10 yr 4/6), dry to wet @ 8'-9", very loose, fine grain	
1	Tube		0.3		1, 2, 3			
			0.4		4, 5			
2	Tube				6			
			0.4		7, 8			
			1.7		9			
3	Tube				10		***Sand*** Black silty (10 yr 2/1), wet	
			1.0		11		***Sand*** Gray (10 yr 4/1), saturated, medium dense, fine to medium	
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: D-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand Dark yellowish brown (10 yr 4/6), very loose, 80% fine, 20% coarse, trace gravel, dry to 9'-3" then wet	
1	Tube		0		1, 2, 3			
2	Tube		0		4, 5, 6, 7			
3	Tube		0.4		8, 9, 10			
			0.6		11		***Sand*** Gray (10 yr 4/1), wet, loose, 90% fine, 10% medium	
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: D-3

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12	**Elevation:**	**Date Start:** 11/13/98
Surface Conditions: Concrete				**Date End:** 11/13/98
Drilling Contractor: Rock & Soil		**Driller:** J. Hoover	**Geologist/Engineer:** J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		***Sand*** Yellowish brown (10 yr 4/4), dry, loose, 90% fine, 10% coarse	
1	Tube		0		2			
					3			
					4			
					5			
2	Tube		0		6			
					7			
					8			
			0		9		Slough from 9'-12'	
3	Tube				10			
			0		11		***Sand*** Gray (10 yr 4/1), wet, dense from 11-11.5', loose; very fine to coarse	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: D-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Concrete***	
1	Tube				1, 2, 3		***Sand*** Gravelly sand, yellow brown (10 yr 5/6), dry, loose, well rounded, poorly graded	
2	Tube		0 0		4, 5, 6, 7, 8		***Sand*** Yellowish brown (10 yr 4/4), dry, loose	
					9, 10, 11, 12, 13, 14, 15		End of Borehole	

Log of Borehole: D-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		***Sand*** Gravelly sand, yellow brown (10 yr 5/4), dry, loose, well rounded, poorly graded	
1	Tube		0		2			
					3		***Sand*** Yellowish brown (10 yr 4/4), dry, fine grain, trace coarse	
					4			
			0		5			
2	Tube				6			
			0		7			
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: D-6

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Sand	
			0		1			
1	Tube				2			
			0		3			
							Gravelly Sand 3'-6" - 4'-8"	
					4			
			1.2		5		***Sand*** Yellowish brown (10 yr 5/4), dry, fine grain, very loose	
2	Tube				6			
			351		7			
							Sand Brown, very fine grain, moist	
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: D-7

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/16/98
Surface Conditions: Concrete				Date End: 11/16/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.4		1		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, trace well rounded gravel, trace medium sand	
1	Tube		1.9		2			
			3.6		3			
					4			
			10.6		5			
			11.0					
2	Tube				6			
			21.4		7			
			507					
					8		***Sand*** Black, moist, loose, fine grain	
							Sand Very dark gray (10 yr 3/1), wet, loose, odor	
			121		9			
3	Tube		150		10			
			54		11		***Sand*** Dark yellowish brown (10 yr 4/4), wet, loose, well rounded gravel	
					12		***Sand*** Dark yellowish brown (10 yr 4/4), wet, loose, well rounded gravel, well rounded cobble, medium grain sand	
					13		End of Borehole	
					14			
					15			

Log of Borehole: D-8

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/16/98
Surface Conditions: Concrete				Date End: 11/16/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		1, 2, 3, 4		***Sand*** Yellowish brown (10 yr 5/4) (10 yr 4/4) color change @ 7'-10", dry to wet, gravel throughout, well graded	
2	Tube		4.3 3.7 2.3		5, 6, 7, 8			
3	Tube		6.0 1.0 2.2		9, 10, 11		***Sand*** Very dark gray (10 yr 3/1), wet, dense, very fine grain, coarse gravel	
					12, 13, 14, 15		End of Borehole	

Log of Borehole: E-1

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 11/16/98
Surface Conditions: Concrete			**Date End:** 11/16/98
Drilling Contractor: Rock & Soil		**Driller:** J. Hoover	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1, 2, 3		***Sand and Gravel Fill Material***	
2	Tube				4, 5		***Sand*** Dark brown (10 yr 3/3), dry, loose, gravelly	
					6, 7		***Sand*** Gravelly, yellowish brown (10 yr 5/4), dry, loose, poorly graded, well rounded	
					8		***Soft Moist Fiberous Material***	
3	Tube				9, 10, 11		***Sand*** Dark yellowish brown (10 yr 4/4), moist to wet, loose	
					12		***Sand*** Gray (10 yr 4/1), moist to wet, loose	
					13, 14, 15		End of Borehole	

Log of Borehole: E-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 12/21/98
Surface Conditions: Concrete				Date End: 12/21/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface No Recovery 0-24"	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		2		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain, no odor	
2	Tube		0		4		***Fill*** Fiber board, acm, hard	
					6		***Sand*** Yellowish brown (10 yr 5/6), moist, medium dense, gravelly, very fine to medium grain	
3	Tube		0 0		11		***Sand*** Gray (10yr 4/2), moist, no odor	
					12		***Sandy Fill*** Dark brown (10 yr 3/3), moist, soft, gravel, no odor	
4	Tube		0 0 0		16		***Silty Sand*** Gray (10 yr 4/2), wet, medium, dense, no odor	
							End of Borehole	

Log of Borehole: E-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/21/98
Surface Conditions: Concrete				Date End: 12/21/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand Yellowish brown (10 yr 5/6), dry, loose, well graded gravel, trace coarse sand, very fine gravel	
			0		1			
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain, no odor	
			0		3			
					4			
			0		5			
2	Tube				6			
			0		7			
					8			
			0		9			
3	Tube				10			
			0		11		Color grades to gray, no odor	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: E-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/21/98
Surface Conditions: Concrete				Date End: 12/21/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube		0		1		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, graded gravel, well rounded, slight odor	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					2			
					3			
					4			
					5			
2	Tube		0		6			
					7			
					8			
					9			
3	Tube				10		color grades to gray	
					11		slight odor, wet	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: E-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 12/21/98
Surface Conditions: Concrete				Date End: 12/21/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		0		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine, no odor	
					1			
					2			
					3			
					4			
2	Tube		0		5			
					6			
					7			
					8		1" lense of black silty material, dry, no odor	
					9			
3	Tube		6.2		10		Soft probing 10-12'	
					11			
					12		***Sand*** Gray (10 yr 4/2), moist, loose, very fine, slight odor	
					13			
4	Tube		12.2		14		***Sand*** Gray (10 yr 4/2), wet, medium dense, coarse to fine sand, odor	
					15			
					16		End of Borehole	

Log of Borehole: E-6

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 01/06/99
Surface Conditions: Concrete				Date End: 01/06/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube		0		1–5		***Gravelly Sand*** Yellowish brown (10 yr 5/6), dry, loose, well graded gravel, no ACM present	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube		0		5–8		***Fill Material*** Brown/black, ash, bricks, dry, some fiberous debris, wood, gravel, potential ACM present	
					8–15		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Log of Borehole: GT-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/6/98
Surface Conditions: Asphalt				Date End: 11/6/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Gravel and Sand***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1, 2, 3, 4		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, well graded well rounded gravel, trace cobble, trace medium sand, no odor	
2	Tube		44.8		5			
							Black fiberous silt, sampled for acm	
			69.8		6, 7, 8		***Sand*** Gray (10 yr 4/1), wet, dense to medium dense, well graded, rounded gravel, slight odor	
3	Tube		23.3		9, 10			
			11.2		11			
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: GT-2

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8 / **Elevation:**	**Date Start:** 11/09/98
Surface Conditions: Asphalt			**Date End:** 11/09/98
Drilling Contractor: Rock & Soil		**Driller:** J. Hoover	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							FILL Gravel & fiberous material	
			0		1		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain	
1	Tube				2			
			0		3			
					4			
					5		Gravel, poorly graded, 4'8"-4'9"	
			0				***Sand*** Yellowish brown (10 yr 4/1), dry, loose, very fine grain	
2	Tube				6		***Silty Clay*** Black, firm	
			12.4		7		***Sand*** Gray (10 yr 4/1), wet, medium dense, well rounded gravel, slight odor	
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: H-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/17/98
Surface Conditions: Asphalt				Date End: 11/17/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface 4" Asphalt, 6" Concrete	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1		***Fill*** Granular fill material, white, sand mix, gravel	
					2			
					3			
					4			
2	Tube				5			
					6			
					7			
					8			
					9		Ashy material, granular, non suspect	
3	Tube				10		***Sand*** Gray (10 yr 4/1), wet, medium dense, trace gravel	
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: H-02

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 6	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; trace gravel; coarse grained sand	
			0					
1	Tube	25			2			
			0					
					3			
			0					
					4			
			0					
2	Tube	25			5			
			0					
					6		End of Borehole	Refusal at 6'
					7			
					8			
					9			
					10			

Log of Borehole: H-03

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; trace gravel; coarse grained sand	
			0					
1	Tube	30		"H-3"	2			
			0					
					3		Lenses of white, moist fine grained material grades in from 3' to bottom of boring	
			0					
					4			
			0					
					5			
			0					
2	Tube	50			6			
			0					
					7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-04

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Dark brown; moist; loose; trace gravel; coarse grained sand	
			0					
1	Tube	35		"H-4"	2			
			0				Light brown, fine grained sand grades in	
					3		Pink, coarse grained sand grades in	
							White grades in	
			0				Lenses of white, moist fine grained material grades in from 3.5' to bottom of boring	
					4			
			0		5			
			0					
2	Tube	50			6			
			0		7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-05

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0				***Poorly Graded Sand (SP)*** Dark brown; moist; loose; trace gravel; coarse grained sand	
					1			
			0					
1	Tube	40		"H-5"	2			
			0				Dark brown grades in	
					3			
			0				Lenses of white, very fine grained material grades in; very moist; 5% black cinders: 0.5" to 1" in size	
					4			
			0					
					5			
			0					
2	Tube	40			6			
			0					
					7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-06

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0				***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained; 5% gravel	
			0		1			
1	Tube	50		"H-6"	2			
			0					
					3		Lenses of white, fine grained material grades in; very moist; 2% yellow	
			0					
					4			
			0					
					5			
			0					
2	Tube	40			6			
			0					
					7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-07

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** H Building		**Project No:** 7992.00
	Project Location: Waukegan, IL	**Total Depth:** 8	**Elevation:**	**Date Start:** 11/20/00
Surface Conditions: Concrete building pad				**Date End:** 11/20/00
Drilling Contractor: Terra-Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand; trace gravel	
			0					
1	Tube	30		"H-7"	2			
			0					
					3			
			0				Lenses of white, fine grained material grades in; very moist	
					4			
			0					
					5			
			0					
2	Tube	50			6			
			0					
					7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-08

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete: gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand; trace gravel	
			0					
1	Tube	30			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	60			6			
			0					
					7			
			0				White, very fine grained material; very moist	
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-09

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand; 5% gravel	
			0					
1	Tube	25			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	90			6			
			0					
					7		2" layer of gray and black cinders	
			0				White, very fine grained material; very moist	
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-10

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
							Concrete; gray; dry; hard	
			0		1		***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand	
			0				Lenses of white, fine grained material grades in; 10% brownish orange	
1	Tube	40		"H-10"	2		Brown grades in with 5% gravel	
			0					
			0		3			
			0		4			
			0		5			
2	Tube	70			6			
			0				Orange, fibrous material at 6.5' to 7'	
			0		7		Black cinders grade in	
							White, very fine grained material; very moist	
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-11

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0				***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand	
					1		1/8" thick layer of very fine grained white material at 0.9'	
			0					
1	Tube	40			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	60			6			
			0					
					7			
			0					
					8		End of Borehole	
					9			
					10			

Log of Borehole: H-12

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete: gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brown; dry; loose; coarse grained sand; trace gravel	
			0					
1	Tube	40			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	80			6			
			0					
					7			
			0					
					8		White, very fine grained material; very moist End of Borehole	
					9			
					10			

Log of Borehole: H-13

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Building		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 11/20/00
Surface Conditions: Concrete building pad				Date End: 11/20/00
Drilling Contractor: Terra-Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Concrete; gray; dry; hard	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0				***Poorly Graded Sand (SP)*** Brown; moist; loose; coarse grained sand	
					1			
			0					
1	Tube	40			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	80			6			
			0					
					7			
			0					
					8		White, very fine grained material; very moist End of Borehole	
					9			
					10			

Log of Borehole: HA-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/03/98
Surface Conditions: Asphalt				Date End: 11/03/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Coarse Aggregate Fill	
					1		Fine sand, fill	
							Silty Sand Fill, black (10 yr 2/1), with cinders	
1	Tube				2		***Fill*** Potential ACM	
					3		***No Recovery***	
					4		***Fill*** Potential ACM	
2	Tube				5			
					6		***Sand*** Fine, Brown (10 yr 5/3), medium dense, moist	
					7			
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: HA-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/03/98
Surface Conditions: Asphalt				Date End: 11/03/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Coarse Aggregate Fill	
					1		***Silty Sand*** Black (10 yr 2/1), with ash and cinders	
1	Tube				2		***Silty Sand*** Yellowish brown (10 yr 5/4) with well rounded pebbles, medium dense, dry, fill	
					3		***No Recovery***	
					4		***Silty Sand*** Yellowish brown (10 yr 3/4), fill	
					5		***Fill*** Coarse aggregate fill	
2	Tube				6		***Fill*** Potential ACM	
					7			
					8		***Sand*** Fine sand with well rounded gravel, dark yellowish brown (10 yr 3/4), moist	
					9		Coarse aggregate, gray (10 yr 6/1), saturated	
3	Tube				10		***Sand*** Fine sand with well rounded gravel, brown (10 yr 5/3)	
					11		***Sand*** Medium to coarse sand, brown (10 yr 4/3), medium dense	
					12		***Gravel*** Gravel with fines, grayish brown (10 yr 5/2)	
							End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: HA-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/03/98
Surface Conditions: Concrete				Date End: 11/03/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
1	Tube				1, 2		Silty sand fill with cinders, ash, gravel, dry, medium dense	
					3, 4, 5		***Sand*** Fine sand with well rounded pebbles, very pale brown (10 yr 7/4), medium dense, dry	
2	Tube			6'	6		***Fill*** Potential ACM	
				7'	7			
					8		***Sand*** Medium sand, well graded, very dark gray (10 yr 3/1), saturated, medium dense	
3	Tube				9, 10, 11, 12		***Sand*** Fine sand grading to medium sand, brown (10 yr 5/3), medium dense, saturated, trace of well rounded pebbles	
					13, 14, 15		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Log of Borehole: HA-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/03/98
Surface Conditions: Asphalt				Date End: 11/03/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1		***No Recovery***	
				3'	2		***Concrete***	
							Fine Sand, Fill	
					3		***Fill*** Coarse aggrate	
							Silty Sand, Fill	
				4'	4		***Fill*** Potential ACM	
							No Recovery	
2	Tube				5			
					6			
					7			
					8		***Sand*** Fine sand with well rounded pebbles, brown (10 yr 5/3), saturated, medium dense	
3	Tube				9			
					10			
					11			
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: HA-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/04/98
Surface Conditions: Asphalt				Date End: 11/04/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube				0–2		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1–2		***Fill*** Potential ACM	
					2–4		***No Recovery***	
2	Tube				4–6		***Fill*** Potential ACM	
					6–8		***No Recovery***	
3	Tube				8–9		***Fill*** Potential ACM	
					9–10		***Sandy Silt*** Black (10 yr 2/1), strong odor, potential ACM	
					10–12		***Silty Sand*** Silty Sand with well rounded pebbles, brown (10 yr 4/3), medium, dense, moist	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: HA-6

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/04/98
Surface Conditions: Concrete				Date End: 11/04/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
					1		Fill, fine sand, silty sand with cinders, coarse aggregate	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				2		***Fill*** Potential ACM	
					3		***No Recovery***	
					4		***Fill*** Potential ACM	
2	Tube				5			
					6			
					7		***Sand*** Fine Sand, grading from black (10 yr 2/1) top to brown (10 yr 5/3) Medium dense, moist, strong odor	
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: HA-7

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/04/98
Surface Conditions: Asphalt				Date End: 11/04/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Fill, fine sand, silty sand with cinders	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1 2 3		***FILL*** Possible ACM with brick material and coal or cinders ***No Recovery***	
2	Tube				4 5 6 7 8		***Fill*** Possible ACM ***Silty Sand*** Light yellowish brown (10 yr 6/4), medium dense, moist, poorly graded	
					9 10 11 12 13 14 15		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Log of Borehole: HA-8

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/04/98
Surface Conditions: Asphalt				Date End: 11/04/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Fill, concrete, silty sand with cinders	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1 2		***FILL*** Potential ACM	
					3		***No Recovery***	
2	Tube				4 5 6 7		***Fill*** Potential ACM	
3	Tube				8		***Silty Sand*** Fine grained, black (10 yr 2/1), strong odor	
							Fill Potential ACM, possible wood fibers	
					9 10 11 12		***Silty Sand*** Coarse aggregate 2" thick, silty sand, black (10 yr 2/1), grading to gray (10 yr 5/1), medium dense, moist, poorly graded, strong odor	
					13 14 15		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, toofing, transite products, etc. within soil matrix.

Log of Borehole: HB-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Grass				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Ash, wood, gravel, sand, fill	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		1		***Granular Material*** White, ashy, wet	
					2			
					3			
					4			
					5			
2	Tube		0		6		***Sand*** Gray (10 yr 4/1), wet, very dense, medium to coarse, trace cobble and gravel	
					7			
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: IC-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Gravel				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube				0–8		***Fill*** Suspect ACM	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube							
3	Tube				8–12		***Sand*** Wet	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: IC-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Gravel				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube				0–8		***Fill*** Suspect ACM	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube							
3	Tube				8–12		***Sand*** Wet	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: IC-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Gravel				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Gravel*** Coarse, aggregate	
					1		***Silty Sand*** Black (10 yr 2/1), damp, loose, very fine, trace gravel	
1	Tube				2		***Fill*** Fibrous material, potential ACM	
					3		***Silty Sand*** Brown (10 yr 4/6), damp, very loose, very fine	
					4		Granular, black and green, similar to sand, fibrous material	
					5		Black granular	
2	Tube				6		***Fill*** Fibrous material, gravel	
					7			
					8			
					9		***Sand*** Dark yellowish brown (10 yr 4/6), wet, medium dense sand, very fine gravel	
3	Tube				10			
					11		Coarse sand	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: IC-4

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Gravel				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube				0		***Fill Material*** to 8'	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube				1, 2, 3, 4, 5, 6, 7			
3	Tube				8		***No Recovery***	
					9, 10, 11			
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: IC-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Gravel				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Fill Material*** Coarse aggregate fill material	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Silty Sand*** Black (10 yr 2/1), dry, loose, gravelly	
1	Tube				2			
					3		***Fibrous Material*** Suspect ACM	
					4		***No Recovery***	
					5			
2	Tube				6		***Sandy Gravel*** Well graded, fill material, suspect ACM	
					7		Fibrous material	
					8		***No Recovery***	
					9			
3	Tube				10			
					11			
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: ICS-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/2/98
Surface Conditions: Grass				Date End: 11/2/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube				0		***Fill Material*** Sandy granular fill, dark brown and black, dry, loose, crushed shingles	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Gravel Fill*** Coarse aggregate gravel fill, well graded	
					2			
					3		***Fibrous Material*** White and yellow material, moist, trace gravel, suspect ACM	
					4			
					5			
2	Tube				6		***Silty Sand*** Yellowish brown (10 yr 4/4), moist, medium dense, very fine grain sand, trace gravel	
							Sandy Gravel Well graded, fill material, suspect ACM	
					7		wet	
					8			
3	Tube				9		***Silty Sand*** Color grades from yellowish brown to gray (10 yr 3/2), wet, medium dense, very fine grain	
					10			
					11		grades to coarse sand, trace gravel	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: ICS-2

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/3/98
Surface Conditions: Grass				Date End: 11/3/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Sandy Silt*** Gravelly, (10 yr 2/1), dry, medium dense, trace fill material (shingles, ash, cinders)	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***No Recovery***	
					3		***Silty Sand*** Fill material, potential ACM	
					4			
					5		***Silty Sand*** (10 yr 4/4), dark yellowish brown, medium dense, trace well rounded gravel, well graded gravel	
2	Tube				6			
					7		Moist to wet	
					8			
					9			
3	Tube				10		Color change to dark gray (10 yr 4/1), grades to coarse sand, wet	
					11			
					12			
							End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: ICS-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/3/98
Surface Conditions: Grass				Date End: 11/3/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
					1		***Sandy Silt*** Very dark grayish brown (10 yr 3/2), dry, medium dense, with fill material (ash and cinders)	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				2		***Fill*** Potential ACM	
					3			
					4			
					5			
2	Tube				6			
					7		***Silty Sand*** Pale brown (10 yr 6/3), moist, medium dense	
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: ICS-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/3/98
Surface Conditions: Grass				Date End: 11/3/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube				1, 2		***Fill*** Silty sand, silty gravel, shingle material, potential ACM, fibrous material, slag, ash, cinders	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					3		***Fine Sand***	
					4		***Fill*** Potential ACM	
2	Tube				5, 6, 7		***Find Sand*** Yellowish brown (10 yr 5/4), medium dense, dry	
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9, 10, 11, 12, 13, 14, 15			

Log of Borehole: IMS-1

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/9/98
Surface Conditions: Dirt				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Clay Brown, moist top cover	
			0		1		***Sand*** Sand fill with fibrous content	
							Granular Fill White, dry	
1	Tube				2			
					3			
					4		***Gravel*** Wet	
			0		5		***Sand*** Dark yellowish brown, (10 yr 8/4), wet, very fine grain	
2	Tube		0		6			
			0		7		***Sand*** Gravelly sand, wet, yellow brown, coarse sand, well rounded gravel	
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: IMS-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/9/98
Surface Conditions: Dirt				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Clay Brown, moist, top soil	
					1		***Sand*** Sand and Fiber mixture	
1	Tube				2			
					3			
					4			
							Sand Yellowish brown (10 yr 4/6), wet, trace coarse sand, medium dense	
2	Tube				5			
					6			
					7			
					8			
					9			
3	Tube				10		***Gravel*** Well rounded, well graded, black, saturated	
					11		***Sand*** Gray (10 yr 11//1), wet, medium dense, no odor	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: IMS-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/9/98
Surface Conditions: Grass				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Sand Yellowish brown (10 yr 4/4), dry to moist, medium dense, very fine grain	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube		0		2			
			0		3			
					4			
			0		5		***Limestone Gravel***	
2	Tube		1.5		6		***Gravelly Sand*** Gray (10 yr 4/1), wet, medium dense, fine to coarse sand, poorly graded gravel, slight odor	
			0		7			
					8			
					9			
3	Tube		1.5		10			
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: IMS-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Asphalt				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0–2		***Sand and Gravel Fill Material***	
1	Tube		0		1			
			0		3		***Sand*** Dark yellowish brown, (10 yr 4/4), medium dense, very fine grain, dry to wet	
			0		5		***Sand*** Gray, (10 yr 4/1), wet, loose, medium to coarse sand, wet, trace shells	
2	Tube		0		6			
			0		7			
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: J-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/16/98
Surface Conditions: Concrete				Date End: 11/16/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Sand*** Sand fill with fibrous hard pieces throughout, very fine grain sand, yellowish brown, dry, loose	
1	Tube		0		2			
					3			
					4		***Sand*** Dark yellowish brown (10 yr 4/4), moist, fine grain, loose	
					5			
2	Tube		0		6		Medium grain sand, well graded, cobble and rounded gravel	
					7			
					8		***Sand*** Dark grayish brown (10 yr 4/2), wet, very dense, fine to medium grains, trace gravel and cobble	
					9			
3	Tube		0		10			
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: J-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/16/98
Surface Conditions: Concrete				Date End: 11/16/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		Ash, gravel, fibrous material, hard sand	
1	Tube		0		2			
					3			
					4			
					5		Sand and Gravel and Fibrous material (shingles), granular, fill material	
2	Tube		0		6			
					7			
					8		Wet	
					9		***Sand*** Dark gray (10 yr 4/1), wet, medium dense, very fine grain, trace coarse, well rounded gravel	
3	Tube		0		10			
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: J-3

LFR LEVINE-FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/16/98
Surface Conditions: Concrete				Date End: 11/16/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
			0		1		***Sand*** Yellow brown (10 yr 5/4), dry, loose	
							Ash, black, granular, sandy	
1	Tube				2		***Sand*** Brown (10 yr 4/3), dry to wet @ 7'6", loose when dry, medium dense when wet	
			0		3			
					4			
			0		5			
2	Tube				6			
			0.2		7			
					8			
			0		9			
3	Tube				10		Saturated, medium dense, grades to corse sand @ 11', trace gravel well rounded	
			0		11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: J-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 1/6/99
Surface Conditions: Concrete				Date End: 1/6/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, no odor	
1	Tube		0		2			
							Fibrous material, potential ACM	
					3		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, no odor	
					4		***Fill Material*** Mostly bricks, very hard probing, soft fibrous mesh @ 7'	
					5			
2	Tube		0		6			
							wet	
					7			
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: K-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/13/98
Surface Conditions: Concrete				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Gravelly Sand Brownish yellow (10 yr 6/6), dry, loose, well graded, well rounded	
1	Tube				1, 2, 3, 4, 5			
2	Tube				6, 7		Ash, sand, gravel, crushed shingles, fill material	
					8		End of Borehole	
					9, 10, 11, 12, 13, 14, 15			

Log of Borehole: K-2

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 1/6/99
Surface Conditions: Concrete				Date End: 1/6/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		1		***Gravelly Sand*** Yellowish brown (10 yr 5/6), dry, loose, fine to coarse sand, well graded gravel, well rounded, no evidence of ACM, no odor	
					2			
					3			
					4			
					5			
2	Tube		0		6		***Fill Material*** Brown/black, dry, medium dense, ash, cinders, potential ACM present, appearance fiber board	
					7			
					8		End of Borehole	Asbestos containing material (ACM) is defined as th presence of brake shoes, roofing, transite products, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: NBT-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 11/3/98
Surface Conditions: Asphalt				Date End: 11/3/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Coarse Aggregate, Fill***	
							Fine Sand, Fill	
1	Tube				2		***Silty Sand*** Fill, very dark gray (10 yr 3/1), dry, medium dense with ash, cinders	
					3			
					4			
2	Tube				5		***Fill*** Potential ACM, wet	
					6			
					7			
					8		***Fine Sand*** Black (10 yr 2/1), medium dense, wet	
3	Tube				9			
					10		***Silt*** Black (10 yr 2/1), strong odor	
					11		***Fill*** Potential ACM, gray	
					12		***Gravely Sand*** Dark gray (10 yr 4/1), loose, saturated	
4	Tube				13		***Silty Sand*** Black (10 yr 2/1), strong odor, trace well rounded gravel, wet, medium dense	
					14			
					15			
					16		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					17			
					18			

Log of Borehole: NBT-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/3/98
Surface Conditions: Asphalt				Date End: 11/3/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Coarse Aggregate, Fill***	
					1		***Fine Sand, Fill*** Contains flakes of shingles, possible ACM	
1	Tube				2		***Coarse Aggregate Fill***	
					3		***Fill*** Potential ACM	
							Silty Sand Fill, dry, very dark gray (10 yr 3/1), with cinders and ash	
					4		***Fill*** Possible ACM	
2	Tube				5			
					6			
					7		***No Recovery***	
					8		***Medium Sand*** Black (10 yr 2/1), strong odor, medium dense	
					9		***Fine Sand*** Black (10 yr 2/1), odor, medium dense	
3	Tube				10		***Sandy Gravel*** Dark grayish brown (10 yr 4/2), well graded, well rounded gravel	
					11		***No Recovery***	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: PHT-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start:
Surface Conditions: Grass				Date End:
Drilling Contractor: Rock & Soil		Driller:	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Silty Clay*** Grayish brown (10 yr 3/2), top soil, damp, stiff, medium plasticity	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				1–4		***Sand and Gravel Fill Material*** Dark reddish black and brown, dry, dense, well graded gravels	
2	Tube				5–6		***Fill Material*** Potential ACM, fibrous material present	
3	Tube				7–9		***Sand*** Brown (10 yr 4/3), wet at 8'10", medium dense sand, very fine, trace of well rounded poorly graded gravel	
					10–11		Coarse sand	
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13–15			

Log of Borehole: R-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 1/6/99
Surface Conditions: Concrete				Date End: 1/6/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube		0		1, 2, 3, 4		***Sand*** Yellowish brown (10 yr 5/6) dry, loose, very fine grain, trace gravel	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube		0		5, 6, 7, 8		Sand grades to coarse material	
3	Tube		0		9, 10, 11, 12		No evidence of ACM, no odor present	
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: R-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 1/6/99
Surface Conditions: Concrete				Date End: 1/6/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		1, 2, 3, 4		***Sand*** Brownish yellow (10 yr 6/6), dry, loose, trace gravel, very fine grain sand, no evidence of ACM	
2	Tube		0		5, 6, 7		Sand color change to yellowish brown (10 yr 5/6), moist	
3	Tube		0		8, 9, 10, 11		Interbedded coarse sand, wet, no evidence of ACM	
					12		End of Borehole	
					13, 14, 15			

Log of Borehole: R-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 1/6/99
Surface Conditions: Concrete				Date End: 1/6/99
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube		0		0		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, trace gravel, no odor, no evidence of ACM	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2			
					3			
					4		End of Borehole	Hit hard object, could not penetrate
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: SBA-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Grass				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Top Soil	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Granular Fill*** White, possible magnesium	
1	Tube				2		***Sand*** Granular fill, white mixture, fiber board	
			0		3			
					4			
			0		5		Pure white (possible magnesium), wet, soft	
2	Tube				6		***Sand*** Gray (10 yr 4/1), saturated, loose, fine to medium sand, no odor	
			0		7			
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: STF-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/12/98
Surface Conditions: Asphalt				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube		0	
			0	
2	Tube		1623	
			34.8	6.5'
			600	7.5'
3	Tube		54.2	
			3.3	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
0–1		***Gravel and Sand Fill Material***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1–6		***Sand*** Dark brown (10 yr 3/3), loose, dry to wet, no odor, trace coarse sand, gravel, mostly fine grain	
6–8		***Sand*** Gray (10 yr 5/1), loose, wet, strong odor	
8		***Silt*** Black (10 yr 2/1), moist	
8–11		***Sand*** Gray (10 yr 5/1), loose, wet, strong odor, oily texture to 9'4"	
11–12		***Gravelly Sand*** Gray (10 yr 5/1), trace cobble	
12		End of Borehole	
13			
14			
15			

Log of Borehole: STF-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/12/98
Surface Conditions: Concrete				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand, Gravel, Ash, Cinders, Fill	
					1			
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/6), dry, very fine grain, loose.	
			2.2		3			
					4			
			0		5			
							Gravel	
2	Tube				6		***Sand*** Gray (10 yr 5/1), saturated, fine to medium, loose, no odor.	
			0		7			
					8			
			0		9			
3	Tube				10			
			0		11			
							Coarse Sand Gray (10 yr 5/1), loose.	
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: STF-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Asphalt				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Sand, Gravel Fill Material***	
1	Tube		0		2		***Sand*** Dark yellowish brown (10 yr 4/4), dry to damp, loose, fine grain, trace gravel.	
					3			
					4			
			0		5			
2	Tube				6			
			50		7		***Sand*** Gray (10 yr 4/1), wet, medium dense, trace gravel, slight odor.	
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: T48-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/13/98
Surface Conditions: Asphalt				Date End: 11/13/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Asphalt*** Black, dry, loose.	
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, very fine grain.	
			0		3			
					4			
			0		5		***Ash, Asphalt*** Black, dry.	
2	Tube				6		***Gravelly Sand*** Yellowish brown (10 yr 4/4), wet, medium dense, fine to medium grain.	
			0		7		***Sand*** Gray (10 yr 4/1), wet, medium dense, trace of wood	
					8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: T51-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/12/98
Surface Conditions: Asphalt				Date End: 11/12/98
Drilling Contractor: Rock & Soil		Driller: J. Hoover	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete, Sand and Gravel	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube		0		2		***Sand*** Yellowish brown (10 yr 5/4), dry to wet, loose, very fine grain, trace gravel.	
					3			
					4			
			0		5			
2	Tube				6			
			0		7			
					8		***Sand*** Gray (10 yr 4/1), wet, loose, very fine grain, trace gravel.	
							End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: TA3-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/4/98
Surface Conditions: Asphalt				Date End: 11/4/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							No Recovery	
			0.5		1		***Silty Sand*** Medium dense, moist, well rounded pebbles (10 yr 3/4)	
1	Tube				2			
			0		3		***Silty Sand*** Black (10 yr 2/1), with cinders, fill	
					4		***Silty Sand*** Dark yellowish brown (10 yr 4/4), fine to medium, well rounded pebbles, medium dense, moist.	
			1.5		5			
							No Recovery	
2	Tube		3.6		6		***Silty Sand*** Gray (10 yr 6/1), well rounded pebbles, strong odor, medium dense, saturated.	
			3600		7			
					8			
					9			
3	Tube				10			
					11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: TA3-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/4/98
Surface Conditions: Asphalt				Date End: 11/4/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: GAE	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		*Ground Surface*	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.0				***Asphalt***	
							Fill, Coarse Aggregate	
					1		***No Recovery***	
			0.0				***Silty Sand*** Light yellowish brown (10 yr 6/4), fine, medium dense, damp.	
1	Tube				2			
			0.0		3			
			0.0		4			
			0.0				***Sand*** Coarse, black (10 yr 2/1), rounded pebbles.	
					5		***Silty Sand*** Fine, gray (10 yr 6/1), medium dense, damp, strong odor.	
			14.6					
2	Tube				6			
			22.1		7			
			19.4		8		End of Borehole	
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: TA3-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/6/98
Surface Conditions: Asphalt				Date End: 11/6/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
			0.0		0		***Sand and Gravel Fill***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.0		1		***Sand*** Yellowish brown (10 yr 5/8), dry, loose, very fine grain.	
1	Tube		0.0		2			
			0.0		3			
			0.0		4			
			0.0		5		***Gravel and Sand*** Well graded, black, moist.	
			0.0				***Sand*** Yellowish brown (10 yr 5/8), moist to wet, medium dense, very fine grain.	
2	Tube		68.8		6		***Clayey Silt*** Black (10 yr 2/1), dry, odor.	
			12.6		7		***Sand*** Gray (10 yr 4/1), saturated, fine grain, well rounded gravel, medium dense, trace coarse sand.	
			0.4		8			
			9.1		9			
3	Tube		43.0		10			
			27.8		11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: TA3-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/6/98
Surface Conditions: Asphalt				Date End: 11/6/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Gravel and Fill	
			0.0		1		***Sand*** Yellowish brown (10 yr 5/4), fine to medium grain, dry, loose, poorly graded gravel.	
1	Tube		0.0		2			
			0.0		3			
					4			
			0.4					
					5		***Sandy Silt*** Black (10 yr 2/1), moist, strong odor.	
			27.8				wet at 5'4".	
2	Tube				6		***Sand*** Gray (10 yr 3/1), wet, medium dense, trace of poorly graded gravel, slight odor.	
			119					
					7			
			827					
					8			
			52.8					
					9			
3	Tube		>1000		10			
			27.1		11			
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: TA3-5

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/6/98
Surface Conditions: Grass				Date End: 11/6/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Fill Material Shingles (fiberous), potential ACM, sampled for anlaysis.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.0		1			
1	Tube				2			
			0.0		3			
					4		***Sand*** Dark yellowish brown (10 yr 4/6), wet, medium dense, fine grain sand.	
			0.0		5			
2	Tube				6		***Sand*** Dark gray, saturated, (10 yr 4/1), medium coarse and fine grain sand, medium dense, slight odor.	
			1.5		7			
					8			
			2.5		9			
3	Tube		10.0		10			
			10.5		11			
					12			
							End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: TA3-6

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 11/6/98
Surface Conditions: Asphalt				Date End: 11/6/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand and Gravel Fill Mix	
			0		1		***Sand*** Yellowish brown (10 yr 5/6), dry, loose, fine grain, well rounded gravel, poorly graded gravel.	
1	Tube		0		2			
			0		3			
					4			
					5		***Silt*** Black, dry.	
			0				***Sand*** Dark yellowish brown (10 yr 4/6), wet, medium dense, medium grain, well rounded, poorly graded gravel.	
2	Tube		0		6			
			0		7		color change to gray (10 yr 4/1).	
					8		color change to dark yellowish brown (10 yr 4/6).	
			0		9		color change to gray (10 yr 4/1).	
3	Tube		0.2		10			
			0.0		11			
					12			
			6.9		13		medium coarse sand, well rounded cobble.	
4	Tube		2.1		14		fine grain sand, well rounded.	
			7.0		15			
					16		End of Borehole	
					17			

Log of Borehole: TA3-7

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/9/98
Surface Conditions: Asphalt				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand and Gravel Fill	
			0		1		***Fiberous Fill Material*** Suspect ACM.	
1	Tube				2			
			0		3			
					4			
			0		5			
							Sand Gray (10 yr 4/1), wet, medium dense, well graded, well rounded gravel, trace of shells, slight odor.	
2	Tube				6			
			0		7			
					8			
			20		9			
3	Tube			10'	10			
			43		11			
					12			
				12'			End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: TA3-8

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/9/98
Surface Conditions: Grass				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Sand and Gravel Fill	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Fiberous Fill*** Black, wet, sample for ACM	
1	Tube		0		2			
					3			
					4			
					5			
							Sand Gray (10 yr 4/1), wet, medium dense, trace cobble, gravel, no odor.	
2	Tube		0		6			
					7			
					8			
					9			
3	Tube		0		10			
					11			
					12			
					13		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					14			
					15			

Log of Borehole: TA3-9

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/9/98
Surface Conditions: Asphalt				Date End: 11/9/98
Drilling Contractor: Rock & Soil		Driller: Russ	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Sand and Gravel Fill***	
1	Tube		0 0		1 2 3 4		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, fine grain, trace gravel.	
2	Tube		0 0		5 6 7		***Gravelly Sand*** Black, wet. ***Sand*** Yellowish brown (10 yr 5/4), wet, fine grain, medium dense.	
					8		***Silt*** Black, moist, no odor. ***Gravelly Sand*** Dark grayish brown (10 yr 4/2), wet, loose, trace shells, no odor.	
3	Tube		0 0		9 10 11		***Sand*** Gray (10 yr 4/1), wet, cobble, medium dense, trace gravel and shells, no odor.	
					12 13 14 15		End of Borehole	

Log of Borehole: B-3-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions: Asphalt				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Fill Material*** Gravelly sand, well rounded and sub angular gravel, poorly graded, black, dry, no visible suspect ACM.	
1	Tube				2			
					3		***Sand*** Yellowish brown, (10 yr 4/6), dry to moist, fine grain, trace gravel, no suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: B-6-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4	**Elevation:**	**Date Start:** 12/14/98
Surface Conditions:				**Date End:** 12/14/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Gravelly Sand*** Black, fill material, dry, well graded gravel, rounded, sub angular, non suspect ACM.	
					1			
1	Tube				2		***Sand*** Yellowish brown, (10 yr 4/6), dry to moist, fine grain, well rounded gravel, no suspect ACM.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: B-9-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0–1		***Gravelly Sand*** Black, fill material, dry, well graded gravel, sub angular, non suspect ACM.	
1	Tube				1–4		***Sand*** Yellowish brown. (10 yr 4/6), dry to moist, fine grain, trace gravel, no suspect ACM.	
					4		End of Borehole	

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Log of Borehole: B-11-G

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions: Asphalt				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Gravelly Sand*** Fill material,well graded brown. sub angular, non suspect ACM.	
					1			
1	Tube				2		***Sand*** Yellowish brown, (10 yr 5/4), dry to damp, very fine grain, trace small rounded gravel, no suspect ACM.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: B-14-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Gravelly Fill Material*** Poorly graded, well rounded and sub angular, no suspect ACM.	
1	Tube				2		***Sand*** Brown, (10 yr 3/3), dry to damp, well rounded, small gravel, no suspect ACM.	
					3		***Sand*** Yellowish brown, (10 yr 5/4), dry to wet at 3'11", trace cobble, well rounded, very fine grain, no suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: C-4-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Gravelly Sand Fill Material*** Brown, dry to damp, poorly graded pea gravel, no suspect ACM.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Sand*** Yellowish brown, (10 yr 5/8), dry to moist, trace of clay, high plasticity, very fine grain sand.	
					3		***Sand*** Yellowish brown, (10 yr 5/4), damp to dry, very fine grain, no suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: C-7-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Gravelly Fill Material*** Poorly graded gravel, dry, no suspect ACM.	
1	Tube				2		***Sand*** Dark brown, (10 yr 3/3), dry to moist, fine grain sand, gravel present, no suspect ACM.	
					3		***Sand*** Yellowish brown, (10 yr 5/4), dry to moist, very fine grain, no suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: C-12-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Sandy Gravelly Fill Material*** Brown, damp to dry, well graded, no suspect ACM.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Sand*** Dark brown, (10 yr 5/4), dry, loose, very fine grain, trace well rounded gravel, no suspect ACM.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: C-18-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1			
1	Tube				2		***Gravelly Sand*** Well graded, round, black to brown, no suspect ACM.	
							Sand Yellowish brown, (10 yr 5/4), dry, loose, well graded, rounded gravel, no suspect ACM.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: C-21-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
							Gravel Fill Material No suspect ACM.	
1	Tube				2		***Fill Material*** Fiberous material, suspect ACM.	
					3		***Crushed Shingle Tabs***	
					4		End of Borehole	Asbestos containing material (ACM) is defineed as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: E-25-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Coarse Aggregate Fill*** Non suspect, gray, dry.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Sand and Gravel Fill*** Brown, dry, non suspect.	
1	Tube				2		***Gravelly Fill and Sand*** Suspect ACM, silty at bottom, fiberous material present.	
					3			
					4		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: G-27-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4 / **Elevation:**	**Date Start:** 12/14/98
Surface Conditions:			**Date End:** 12/14/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube				0–1		***Silty Clay*** Brown (10 yr 3/3), firm, dry to damp, medium plasticity, high organic matter, non suspect ACM.	
					1–2		***Sand*** Yellowish brown (10 yr 4/6), loose, very fine grain, trace gravel, non suspect ACM.	
					2–3		***Clay*** Brown (10 yr 3/3), firm, damp to dry, trace gravel, medium plasticity, non suspect ACM.	
					4		End of Borehole	

Log of Borehole: J-21-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1			
							Coarse Aggregate Fill Material	
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, well rounded, poorly graded gravel, no ACM present.	
					3		***Granular Fill*** Ash, cinders, gravel, sand, dry, medium dense.	
							Gravel Fiber board present, potential ACM, hard.	
					4		***No Recovery***	
					5			
2	Tube				6		***Fill Material*** Soft, brownish gray, moist to wet, contains white fibers, potential ACM.	
					7			
					8		***No Recovery***	
					9		***Fill Material*** Soft, brownish gray, moist to wet, contains white fibers, potential ACM.	
3	Tube				10		***Sand*** Black (10 yr 2/1), saturated, soft, loose, trace of gravel, trace of coarse sand, slight odor.	
					11			
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: K-22-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 32"	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Silty Clay*** Brown, dry, firm, low plasticity, organic matter.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Sand*** Yellowish brown (10 yr 5/4), moist, very fine, loose sand.	
1	Tube				2		***Black Fill Material*** Ash, cinders, glass, roofing material debris.	
							Fill Material Suspect ACM, gray, fiberous.	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					3		End of Borehole	
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: M-22-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4'	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Gravel*** Coarse aggregate, dry, dusty.	
							Fill Material Sand, gravel, ash, cinders, glass, wood, fiberous material, suspect acm present.	
					3		***Fill Material*** Gray, soft, wet, fiberous material, suspect ACM present.	
					4		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: N-24-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1			
1	Tube				2		***Coarse Aggregate Fill Material***	
							Fill Material Soft, grayish white, fibers present, moist, potential ACM.	
					3			
					4		***No Recovery***	
					5		***Sand*** Yellowish brown (10 yr 5/4), wet, loose, gravelly, well rounded, poorly graded, no acm present.	
2	Tube				6			
					7			
					8		***Sand*** dark grayish brown (10 yr 4/2), wet, medium dense, fine to coarse sand, trace gravel, no ACM present, slight odor.	
					9			
3	Tube				10			
					11			
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: O-16-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 12/16/98
Surface Conditions:			**Date End:** 12/16/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***No Recovery***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Coarse Aggregate Fill Material***	
					3		***Fill Material*** Ash, cinders, gravel, granular, glass, coal, no odor.	
					4		***No Recovery***	
					5			
2	Tube				6		***Fill Material*** Ash, tan paper, moist, gravel, soft probing.	
					7		***Sand*** Dark gray (10 yr 4/1), saturated, medium dense, fine to medium grain, no odor.	
					8			
					9			
3	Tube				10			
					11			
					12		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					13			
					14			
					15			

Log of Borehole: R-2-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Gravelly Silty Sand*** Brownish gray (10 yr 4/2), dry, well graded, coarse to fine sand, organic matter.	
1	Tube				2		***Ash and Cinder Fill Material*** Black, sand, glass, non suspect ACM.	
					3		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, trace well rounded, poorly graded gravel, non suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: R-5-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Gravelly Sand*** Poorly graded, sub angular and well rounded. brown color, no suspect ACM material present.	
1	Tube				2		***Fill Material*** White granular, suspect ACM, some sand.	
					3			
					4		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: R-11-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Coarse Aggregate Fill Material*** Well graded gravel.	
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/4), loose, fine grain, dry to damp, trace of well rounded poorly graded gravel, no suspect ACM is present.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: R-14-G

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
							Coarse Aggregate Fill Material	
1	Tube				2		***Fill Material*** Ash, cinders, tar paper, crushed shingles, glass.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: R-17-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4	**Elevation:**	**Date Start:** 12/14/98
Surface Conditions:				**Date End:** 12/14/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube				0		***No Recovery***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2			
					3		***Sand and Bricks, Crushed Stone*** Non suspect ACM.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: R-20-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/14/98
Surface Conditions:				Date End: 12/14/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Gravelly Fill*** Sand, potential ACM material, fiberous, moist.	
1	Tube				2			
					3		Potential ACM, white fibers, gray material, very hard, moist.	
					4		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: T-06-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube				1		***No Recovery***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					2		***Coarse Aggregate***	
					3		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, very fine, trace of coarse, well rounded gravel.	
2	Tube				4		***No Recovery***	
					5			
					6		***Sand and Fiber Board*** Potential ACM.	
							Granular Fill White, wet, potential ACM.	
					7		***Sand*** Yellowish brown (10 yr 5/4), moist, well rounded, poorly graded gravel, moist, no ACM present.	
					8		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite productus, etc. within soil matrix.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: T-9-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Coarse Aggregate Fill Material***	
1	Tube				2		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, well graded gravel, coarse and fine grain sand, well rounded gravel.	
					3			
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: T-13-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Fill Material*** Granular, various colors, white, black, gray, brown, wood.	
					3		fiberous material at 3'-4'.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: U-5-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4 / **Elevation:**	**Date Start:** 12/16/98
Surface Conditions:			**Date End:** 12/16/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Silty Sandy Fill*** Black and brown, gravel, loose, moist, organic matter present.	
1	Tube				2		***Fill*** Granular, gray, small circular particles, fibers, plastic like appearance, wet.	
					3		***Fill*** White, wet, runny appearance, potential fibers.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-2-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							No Recovery	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Granular Fill*** Black and brown, ash, cinders, board with fiber present, coal, potential ACM present.	
1	Tube				2			
							Sand Yellowish brown, (10 yr 5/4), dry, loose, very fine grain.	
					3			
					4		End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-7-G

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Johns Manville	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4 / **Elevation:**	**Date Start:** 12/16/98
Surface Conditions:			**Date End:** 12/16/98
Drilling Contractor: Rock & Soil		**Driller:** John Working	**Geologist/Engineer:** J. Nelson

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							No Recovery	
					1		***Coarse Aggregate Fill*** Very dry.	
1	Tube				2			
					3		***Sand*** Yellowish brown, (10 yr 5/4), dry, loose, very fine grain.	
					4		End of Borehole	
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-10-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube				0–4		***Coarse Aggregate Fill Material*** No suspect ACM.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					2		***Sand*** Yellowish brown (10 yr 5/4), dry, loose, fine grain, poorly graded, well rounded gravel.	
					3		***Coarse Aggregate Fill***	
							Fill Material Ash, cinders, fibers, moist, suspect ACM.	
					4		Crushed shingles and fiber board, hard, suspect ACM.	
							End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: V-13-G

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Johns Manville		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 12/16/98
Surface Conditions:				Date End: 12/16/98
Drilling Contractor: Rock & Soil		Driller: John Working	Geologist/Engineer: J. Nelson	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***No Recovery***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube				2		***Granular Fill Material*** Ash, cinders, gravel.	
					3		***Fill Material*** Fiber board, hard but breakable, suspect ACM present.	
							Red Brick and Wood	
					4		***Granular Fill*** Soft, fiberous.	
							End of Borehole	Asbestos containing material (ACM) is defined as the presence of brake shoes, roofing, transite products, etc. within soil matrix.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-01

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Asphalt pieces				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Cinders, asphalt pieces mixed, black & brown, moist	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP)	
			10.1		1		Brown; dry; loose; fine sand; 2% gravel	
1	Tube	70			2			
			3.4	BTEX PNAs	3			
					4			
					5		Wet at 4.75'	
2	Tube	100			6			
					7		Gray grades in	
					8			
					9			
3	Tube	75			10			
					11		Coarse sand @ 11', gray and black	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					13			
					14			
					15			

Log of Borehole: 01-02

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/27/01
Surface Conditions: Lean Clay				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Lean Clay (CL) Moist; brown; 2% gravel	
			1.3		1		***Well Graded Sand (SW)*** Gray and brown; moist; loose, 10% gravel	
1	Tube	70			2		***Poorly Graded Sand (SP)*** Brown; moist; loose	
			1.1	3' PNAs BTEX	3			
					4		Crushed transite; gray; fibrous; hard drilling	
				4'			***No Recovery***	
2	Tube	50	0		5			
					6		***Poorly Graded Sand (SP)*** Gray; wet; loose	
					7		wood mulch, brown; wet; 25% brown sand; peat	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-03

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/27/01
Surface Conditions: Lean clay				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	70	2.1		0–1		***Lean Clay (CL)*** Moist; brown; 2% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1–3		***Well Graded Sand (SW)*** Slightly moist; dark brown to black; 5% gravel.	
			10.2	BTEX PNAs	3–8		***Poorly-Graded Sand (SP)*** Slightly moist; brown; 2% gravel; fine sand.	
2	Tube	80	20		5		wet at 4.75.	
			58		6–7		gray grades in, strong petroleum odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.

Log of Borehole: 01-04

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/27/01
Surface Conditions: Lean clay				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			4.2		1		***Lean Clay (CL)*** Brown; dry; firm; 5% gravel.	
1	Tube	75%			2			
			56	0830	3		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel.	
					4			
			74		5		wet at 5', strong petroleum odor, very dark brown.	
2	Tube	85%			6			
					7		gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-05

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	65		0–12		***Poorly-Graded Sand (SP)*** Brown; slightly moist; loose; 2% gravel; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	60	110	BTEX PNAs VOCs	6		coarse sand grades in.	
3	Tube	100	486		8–10		gray grades in, wet at 8.5', fine sand.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.

Log of Borehole: 01-06

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	15		1		***Poorly-Graded Sand (SP)*** Brown; slightly moist; loose; 2% gravel; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			40		2			
					3		black grades in.	
					4		2" cinder layer, black. brown grades in.	
2	Tube	90	36	BTEX PNAs	5			
			14		6			
					7		3" layer coarse brown sand, very moist at 7.5'.	
3	Tube	100	15		8		wet.	
					9			
			12		10		gray grades in.	
					11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					13			
					14			
					15			

Log of Borehole: 01-07

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	75%	11 31		0–4		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; fine sand. Cinders; black, 3-4" layer	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	90%	40 33	BTEX PNAs	4–8		very moist at 7'.	
3	Tube	90%	12 23		8–12		gray grades in; wet.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.

Log of Borehole: 01-08

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 1% gravel; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.2		1			
1	Tube	60			2			
			4.2		3			
					4			
					5			
2	Tube	20			6			
			4.8		7			
				BTEX, PNAs				
					8			
					9		gray grades in, wet @ 8.5'. brown, coarse sand grades in.	
3	Tube	100			10			
					11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					13			
					14			
					15			

Log of Borehole: 01-09

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 1% gravel; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			9		1			
1	Tube	70			2			
			32		3			
					4			
					5			
2	Tube	50			6		coarse sand grades in, very moist.	
			60	BTEX, PNAs	7			
					8		wet at 8'.	
					9			
3	Tube	90			10		gray grades in; fine sand.	
					11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					13			
					14			
					15			

Log of Borehole: 01-10

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.4		1		***Lean Clay (CL)*** Brown; sl. moist; firm; 5% gravel.	
1	Tube	70			2		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; fine sand.	
			0.4		3			
				BTEX, PNAs	4			
			0.7		5		dark brown grades in; wet; strong petroleum odor.	
							gray grades in.	
2	Tube	90			6		brown grades in.	
			188		7		black grades in.	
							grayish brown grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-11

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand, pipe chase going N				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; fine sand	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.9		1			
1	Tube	70			2			
			4.8		3			
					4			
			1.8	BTEX, PNAs	5			
2	Tube	90			6			
			6.7		7		wet, coarse sand grades in; 10% gravel.	
							dark brown grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-12

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand, pipe chase going N				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	0.3		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	65	0.6		5			
			0.9		7		grading to gray.	
							3" black, wood mulch layer (peat).	
3	Tube	100	6.3	BTEX PNAs	8		***Sand (SP)*** grading to dark brown. grading to gray.	
			4.5		10		grading to light gray; very moist.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.

Log of Borehole: 01-12A

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E, Pit #2		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/27/01
Surface Conditions: Sand, pipe chase going N				Date End: 11/27/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	10	0.2		0–4		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	0			4–8		***No Recovery***	
3	Tube	95	0.4 0.4		8–12		grading black; moist. grading gray; moist.	
					12–15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/27/01.

Log of Borehole: 01-13

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	27.5		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand; strong petroleum odor.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	75	75.4 79.9	VOCs PNAs	5		grading brownish gray.	
					7		grading dark gray; wet; very strong petroleum odor or solvent.	
3	Tube	90			9		3" black wood mulch layer (peat)	
					10		***Lean Clay (CL)*** Brown; moist; firm.	
					11		***Poorly-Graded Sand (SP)*** Dark gray; wet; loose; 1% gravel; 99% fine sand.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13			
					14			
					15			

Log of Borehole: 01-14

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 15	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.5		1			
1	Tube	75			2			
			1.5		3			
					4			
			20		5			
2	Tube	75			6		grading gray.	
			108		7			
					8		grading dark gray; wet; odor.	
			162		9		***Lean Clay (CL)*** Brown; moist; 2" layer.	
3	Tube	100			10		3" black wood mulch layer (peat) ***Poorly-Graded Sand (SP)*** Brown; wet; loose; 2% gravel; 98% fine sand.	
			79		11			
					12			
			7.9		13		well graded gravel with sand; gray and brown.	
4	Tube	100					***Poorly-Graded Sand (SP)*** Gray; very moist; loose.	
			74.3		14			
					15			Obstruction at 15'.
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					16			

Log of Borehole: 01-15

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			7.9		1			
1	Tube	60			2			
			11.2		3			
					4			
			5.1		5			
2	Tube	75			6			
			62		7			
					8		grading to gray; wet.	
							grading to dark gray, odor.	
			340		9			
3	Tube	100			10		3" layer black wood mulch, peat.	
							Poorly-Graded Sand (SP) Dark gray; wet; loose.	
			11.1		11			
					12		End of Borehole	Broing backfilled to ground surface with bentonite pellets on 11/28/01.
					13			
					14			
					15			

Log of Borehole: 01-16

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	4.7		0–3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	65	5.7, 5.8		4–7			
3	Tube	90	12.1, 45.5		8–11		wet. grading to gray. 4" black wood mulch layer (peat) ***Poorly-Graded Sand (SP)*** Brown to dark brown; wet; loose; 5% gravel; 95% coarse sand.	
					12–15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Log of Borehole: 01-17

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			21		1			
1	Tube	60			2			
			51		3			
					4			
			49		5			
2	Tube	70			6			
			238		7		wet, slight odor.	
					8			
			91.6		9			
3	Tube	90			10		grading to gray, slight odor.	
			87		11		6" layer black wood mulch (peat)	PID readings may be affected by air moisture.
					12		***Poorly-Graded Sand (SP)*** grayish brown; wet; loose; 5% gravel; 95% coarse sand.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13			
					14			
					15			

Log of Borehole: 01-18

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	250		0–4		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% coarse sand; mild odor, sweet.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	215 161	VOC PNA	4–8		grading to gray; wet; strong odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Log of Borehole: 01-19

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	118		1		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			130		2			
					3			
					4			
2	Tube	75	107	BTEX PNA	5			
			337		6			
					7		wet, odor. grading to gray.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-20

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	70	1.0 1.0		1 2 3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	42 40	BTEX PNA	4 5 6 7		grading to gray, wet, odor.	
					8 9 10 11 12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Log of Borehole: 01-21

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	5 1		0 1 2 3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand; slight odor.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	15	28		4 5 6 7		grading to gray, wet, odor.	
					8 9 10 11 12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Log of Borehole: 01-22

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			4		1			
1	Tube	60			2			
			2.8		3		slight odor.	
					4			
					5			
2	Tube	50			6			
			55		7		grading to gray, wet, slight odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-23

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	50	1		1, 2, 3, 4, 5, 6, 7		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	40	28				grading to gray, wet, odor.	
					8, 9, 10, 11, 12, 13, 14, 15		End of Borehole	Boring backfilled to ground wurface with bentonite pellets on *11/28/01*.

Log of Borehole: 01-24

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 5.5	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	0.5		0–5		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 95% fine sand Large pieces of gravel in shoe; refusal at 5.5'.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	5	0.8		5–6		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-25

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 7	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	0.9		0–7		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand; slight odor. increase in gravel; wet; odor. Refusal @ 7'; concrete in shoe.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	20						
					7		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Log of Borehole: 01-26

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0.7		1, 2, 3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	0.5, 0.5		4, 5, 6, 7		wet.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					9, 10, 11, 12, 13, 14, 15			

Log of Borehole: 01-27

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0.8		0–8		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	0.5, 0.4				wet.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-28

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			0		3			
					4			
			0		5			
2	Tube	75			6			
			0		7		wet, very slight odor.	
					8		Black wood mulch (peat).	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-29

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	25	0.2		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
2	Tube	25	0.2		2			
					3			
					4			
					5			
					6			
					7		wet, very slight odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-30

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	40	0.4		0–8		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	30	0.7 5.5		7		wet. grading to gray.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-31

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	40	0.9		0–4		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	40	0.4 0.9		4–8		Wet. Grading to gray.	
3	Tube	40	49		8–12		Grading to dark gray; very stong odor (petroleum); trace black.	
					12–15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.

Log of Borehole: 01-32

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	40	1.4		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	40	1.2		1, 2, 3, 4, 5, 6, 7			
3	Tube	40	1.5, 0.5		8		Very Moist.	
					9			
					10		Wet; very slight odor. Grading to dark gray.	
					11		Grading to brownish orange layer. Grading to gray. Grading to dark gray.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13, 14, 15			

Log of Borehole: 01-33

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	30	0.7		1, 2, 3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	75	0.8, 1		4, 5, 6, 7			
3	Tube	95	26, 4		8, 9, 10, 11		wet; grading brownish gray; slight odor. grading to gray; slight odor.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13, 14, 15			

Log of Borehole: 01-34

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	75			2			
			0.1		3			
					4			
			0.5		5			
2	Tube	40			6			
			0.5		7			
					8		wet.	
			0.4		9		grading to gray.	
3	Tube	75			10			
			0.5		11		grading to dark gray; very slight odor.	
					12		*End of Borehole*	*Boring backfilled to ground surface with bentonite pellets on 11/28/01.*
					13			
					14			
					15			

Log of Borehole: 01-35

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/28/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 5% gravel; 95% fine sand.	
			0.5		1			
1	Tube	70			2			
			4.8		3			
					4			
					5			
2	Tube	20			6			
			45		7			
					8		wet; grading to dark gray and black; strong odor.	
			120		9			
3	Tube	95			10			
			130		11			
							2" wood mulch layer (peat)	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13			
					14			
					15			

Log of Borehole: 01-36

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/28/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 5% gravel; 95% fine sand.	
			2		1			
1	Tube	60			2			
			0.2		3			
					4		Very moist.	
			0.4		5			
2	Tube	75			6		Wet; mild odor.	
			1.7		7			
					8		Grading to gray.	
			1.7		9		2" Black wood mulch layer (peat)	
							Lean Clay Gray; wet; firm.	
3	Tube	100			10		***Poorly -Graded Sand (SP)*** Dark gray; wet.	
			1.0		11		1" black wood mulch layer (peat). ***Poorly Graded Sand (SP)*** *Dark gray; wet; loose; mild odor.*	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/28/01.
					13			
					14			
					15			

Log of Borehole: 01-37

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP) Brown; sl. moist; 5% gravel; 95% fine sand.	
			0.7		1			
1	Tube	60			2			
			0.8		3			
					4			
			0.7		5			
2	Tube	60			6		Wet; slight odor. Grading to gray.	
			16		7		Grading to dark gray; slight odor.	
					8			
			16		9			
3	Tube	100			10		4" thick black wood mulch layer (peat).	
							Poorly Graded Sand (SP) Dark brown; wet; rootlets 5%.	
			2		11		grading to gray, slight odor.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.
					13			
					14			
					15			

Log of Borehole: 01-38

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 6	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	3		0–6		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand. wet. grading to light gray.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler. Obstruction at 6'.
2	Tube	75	1.5		6		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-39

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. E		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	50	0.4		1		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.5		2, 3			
2	Tube	25	0.4		4, 5			
			0.9		6, 7			
3	Tube	100	0.4		8		wet. grading to light gray.	
			0.6		9			
					10		***Lean Clay*** Gray; firm; wet; 2".	
							Black Mulch Layer (peat).	
					11		***Poorly-Graded Sand (SP)*** Wet; dark gray. grading to gray.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.
					13, 14, 15			

Log of Borehole: 01-41

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. T, Tar Pit		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.1		1		***Poorly-Graded Sand (SP)*** Dark brown; sl. moist; loose; 5% black asphalt pieces; 5% gravel; 90% fine sand. asphalt grades out.	
1	Tube	60			2			
			0.2		3			
					4		wet.	
			0.4		5			
2	Tube	75			6			
			0.4		7		4" Black wood mulch layer (peat)	
					8		***Poorly-Graded Sand (SP)*** Dark brown; wet; fine sand grading to brown.	
			0.5		9			
3	Tube	100			10			
			0.6		11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.
					13			
					14			
					15			

Log of Borehole: 01-42

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Bldg. D, Tar Saturator		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.4		1			
1	Tube	60			2			
			0.4		3			
					4			
			0.9		5			
2	Tube	75			6			
			1.9		7		wet.	
					8		increase in gravel; 15% gravel.	
			0.9		9			
3	Tube	100			10		2" black wood mulch layer (peat).	
							Poorly-Graded Sand (SP) Dark brown; wet; loose.	
			1.0		11		grading to light gray.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.
					13			
					14			
					15			

Log of Borehole: 01-43

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Tar Saturator		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	20	0.8		0–8		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	60	1.8 1.9				Wet: 15% gravel.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-44

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Tar Saturator		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/29/01
Surface Conditions: Sand				Date End: 11/29/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	20	0.6		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	60	1.4 1.2	BTEX PNAs	1 2 3 4 5 6 7		wet. increase in gravel, 15%.	
3	Tube	100			8 9 10		Black wood mulch layer (peat) 2".	
					11		***Poorly-Graded Sand (SP)*** Dark gray; wet; fine sand. grading to light gray.	
					12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/29/01.

Log of Borehole: 01-45

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 6	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	0.1	BTEX PNAs	0–5		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	20	29.5		4–5		Wet	
					5–6		***Asphalt Shingle Material*** Hard, black, 6".	
					6		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-46

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Bldg. D, Saturators	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8 / **Elevation:**	**Date Start:** 11/30/01
Surface Conditions: Sand			**Date End:** 11/30/01
Drilling Contractor: Terra Trace		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	0.1		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.9	BTEX PNAs	1, 2, 3			
2	Tube	75	1.9		4, 5		wet.	
			3.8		6		15% gravel.	
					7		grading to dark gray.	
					8		grading to light gray; slight odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9, 10, 11, 12, 13, 14, 15			

Log of Borehole: 01-47

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0.4		1		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.5	BTEX PNAs	2			
2	Tube	70	0.6		3			
			1.0		4		wet.	
					5		15% gravel.	
					6			
					7		grading to light gray.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-48

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.3		1			
1	Tube	60			2			
			1.5		3			
					4		Grading to gray Black grades in: asphalt material; hard; slight odor End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-49

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
1	Tube	70			2			
			0.3		3			
					4		15% gravel grades in.	
			0.9		5			
2	Tube	90			6		wet.	
			1.2		7		grading to black; decrease in gravel.	
					8			Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-50

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	75	0.3 0.6		0 1 2 3 4		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	75	0.6 0.8		5 6 7		15% gravel grades in. wet. grading to gray.	
					8 9 10 11 12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.

Log of Borehole: 01-51

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Saturators		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube	20			2			
			0.1		3			
					4			
			0.2		5			
2	Tube	75			6		wet; 15% gravel grades in.	
			0.2		7		grading to gray.	
					8		black peat layer.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-52

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Bldg. D, Still Room		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
1	Tube	60			2			
			0.6		3			
					4			
					5			
2	Tube	20			6			
			0.3		7		wet; 15% gravel grades in.	
					8		gray grades in; slight odor.	
			4.5		9			
3	Tube	100			10			
			350		11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					13			
					14			
					15			

Log of Borehole: 01-53

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D, Still Room		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	600	BTEX PNAs	0–3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	540		4–5		slight odor.	
			680		6–7		wet: gray grades in; strong odor. dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-54

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	310		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2			
					3		grading to light gray.	
					4		dark gray grades in: strong odor.	
2	Tube	75	481		5			
					6			
			476		7		wet.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-55

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	0.2		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
					2			
					3			
					4			
2	Tube	75	343		5			
					6		Gray grades in; odor Wet; dark gray grades in; odor Light gray grades in	
					7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-56

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			3.4		1			
1	Tube	75			2			
			0.4		3			
					4			
			550		5			
2	Tube	70			6		gray grades in; odor.	
			630		7		Black layer (peat) 2"	
							Poorly Graded Sand (SP) Dark gray.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-57

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			0.4		3			
					4		Light gray grades in; odor.	
			495		5			
2	Tube	70			6		Wet.	
			830		7		Dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-58

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.8		1			
1	Tube	75			2			
			0.4		3			
					4			
			0		5			
2	Tube	70			6		Wet; 15% gravel grades in Black grades in; decrease in gravel	
			0.1		7		Orange grades in Brown grades in Light gray grades in	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-59

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.1		1			
1	Tube	75			2			
			0.1		3			
					4			
			0.5		5		Wet; 15% gravel; odor	
2	Tube	75	1000		6		Black grades in	
			1014		7		Dark gray grades in	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-60

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	25	0.1		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	75	0.2		5		Wet; 15% gravel grades in.	
			889		7		Black grades in; odor. Gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.

Log of Borehole: 01-61

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Excavation #5	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8 / **Elevation:**	**Date Start:** 11/30/01
Surface Conditions: Sand; Bldg. R			**Date End:** 11/30/01
Drilling Contractor: Terra Trace		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	30	0.3		0–6		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	25	35		6–7		***Well Graded Gravel (GW)*** Wet; brown and yellow; loose; 5% sand; 95% gravel.	
					7–8		***Poorly-Graded Sand (SP)*** Dark brown; wet	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-62

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 11/30/01
Surface Conditions: Sand; Bldg. R				Date End: 11/30/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
1	Tube	75			2			
			0.4		3		10% gravel grades in.	
					4			
			0.2		5			
2	Tube	75			6			
			2.5		7		black grades in; wet. brown; dark brown grades in.	
					8			
			0.4		9		***Poorly Graded Sand with Gravel (SP)*** Dark brown; wet; loose; 25% gravel; 75% medium sand.	
3	Tube	100			10			
			1.0		11		dark gray grades in.	
					12			
			0.4		13			
4	Tube	100			14			
			0.5		15		***Poorly Graded Sand (SP)*** Light gray; wet; loose; fine sand.	
					16		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 11/30/01.
					17			

Log of Borehole: 01-63

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brown; dry; loose; 5% gravel; 95% fine sand	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.4		1		Asphalt; black; hard; dry	
1	Tube	75			2		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand	
			0.5		3			
					4		Wet	
			0.6		5			
2	Tube	100			6			
			0.7		7		Grading to black; very fine sand	
					8		Grading to dark brown	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-64

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 3.5	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly-Graded Sand (SP) Brown; dry; loose; 5% gravel; 85% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.2		1			
1	Tube	60			2			
			0.2		3			Refusal at 3.5'.
					4		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-65

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Bldg. C				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	75	0 0.4		0 1 2 3		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	80	1.3 286		4 5 6 7		gray grades in; wet; odor.	
					8 9 10 11 12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.

Log of Borehole: 01-66

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Bldg. C				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 1% gravel; 99% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.8		1			
1	Tube	75			2			
			480		3			
					4			
			773		5			
2	Tube	75			6		light gray grades in; odor.	
			610		7		gray grades in; wet; odor.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-67

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Bldg. C				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP) Brown; dry; loose.	
			0.3		1			
1	Tube	75			2			
			1.4		3			
					4			
			769		5			
2	Tube	60			6			
			500		7		gray grades in; wet; odor.	
							dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-68

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Bldg. C				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.8		1			
1	Tube	70			2			
			1.2		3			
					4			
			826		5			
2	Tube	75			6		Gray grades in; wet; odor.	
			1122		7		Dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-69

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Excavation #5	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8 / **Elevation:**	**Date Start:** 12/03/01
Surface Conditions: Sand, Bldg. C			**Date End:** 12/03/01
Drilling Contractor: Terra Trace		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0.8		1		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.2		2			
2	Tube	70	1.7		3			
			1.9		4			
					5			
					6		Dark brown grades in; wet; 10% gravel; 90% medium sand.	
					7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-70

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 2	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 5% gravel: 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.6		1			
			0.9				gray grades in with 15% gravel.	Refusal at 2'.
1	Tube	50			2		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-71

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 3.5	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand with Gravel(SP)*** Dark brown; dry; loose; 25% gravel; 75% fine sand	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			3.0		1		5% wood and red and green sand grades in	
1	Tube	70			2		1% Glass chips	
							Fine Grained Lime Material Light gray; slightly moist.	
			1.5		3		very moist.	
					4		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-72

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Excavation #5	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 3 / **Elevation:**	**Date Start:** 12/03/01
Surface Conditions: Sand, Between Bldg. C & D			**Date End:** 12/03/01
Drilling Contractor: Terra Trace		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	1.8		0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2		wet.	
					3			Refusal at 3'.
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-73

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand with Gravel (SP) Dark brown; sl. moist; 20% gravel; 75% fine sand; 5% white lime material.	
			280		1		***Asphalt*** Black; hard.	
1	Tube	75			2		***Poorly-Graded Sand (SP)*** Brown; sl. moist; fine sand.	
			830	VOC PN A3			dark gray grades in; odor.	
					4			
			958		5		very dark gray grades in; wet; strong odor.	
2	Tube	80			6			
			1100		7		25% gravel grades in	
					8			
			550		9			
3	Tube	100			10		gray grades in; 2% gravel; 98% fine sand.	
			22		11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					13			
					14			
					15			

Log of Borehole: 01-74

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C&D, Near Tank 030				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	30	3.1		0		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 5% gravel; 95% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	90	1010 1171		1 2 3 4 5 6 7		light gray grades in; wet. dark gray grades in. light gray grades in.	
3	Tube	100	1139 75		8 9 10 11 12		25% gravel grades in. light gray grades in.	
					13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.

Log of Borehole: 01-75

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 2	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C&D, Near Tank 030				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand with Gravel (SP)*** Brown; dry; loose; 20% gravel; 75% fine sand; 5% asphalt.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			230		1			
1	Tube	50			2			Refusal at 2'.
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-76

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Concrete, Between Bldg C&D, Tank 030				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface Formerly concrete inside tank excavation.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			230		1			
1	Tube	40			2		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 2% gravel; 98% fine sand.	
			204		3			
					4			
			590		5		Dark gray grades in; wet. Black grades in.	
2	Tube	70			6		Gray grades in.	
			1003		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-77

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60			1		***Poorly Graded Sand with Gravel (SP)*** Dark brown; sl. moist; loose; 25% gravel; 75% fine sand; trace glass; trace asphalt.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			916	VOC PNA	2		***Poorly Graded Sand (SP)*** Dark brown; sl. moist; loose; petroleum odor; oil sheen.	
					3			
					4			
			700		5		Dark gray grades in; wet; oil sheen; odor.	
2	Tube	90			6			
					7		Gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-78

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand with Gravel (SP)*** Dark brown; sl. moist; loose; 25% gravel; 1% glass; 1% cinders; 73% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			2		1		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose; 2% gravel; 98% fine sand.	
1	Tube	70			2			
			2.5		3			
					4		wet.	
			13.8		5			
2	Tube	90			6		gray grades in.	
			6.5		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-79

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			6		1		***Poorly-Graded Sand with Gravel (SP)*** Dark brown; dry; loose; 25% gravel; 75% fine sand; trace asphalt.	
1	Tube	70			2		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose	
			4		3			
					4		Black grades in; odor	
							Dark gray grades in: wet; odor	
			1045		5			
2	Tube	90			6		Gray grades in	
			1168		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-80

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			310		1			
1	Tube	70			2			
			588		3		Black grades in; 10% gravel grades in. 1" thick white lime material; fine-grained. Dark gray grades in.	
					4			
			943		5		Wet.	
2	Tube	75			6			
			532		7		***Well-Graded Gravel with Sand*** Wet; very dark gray; 30% sand; 70% fine gravel.	
					8		***Poorly-Graded Sand (SP)*** Wet; gray.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-81

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 15	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, Bldg. E Courtyard				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.0		1		***Lean Clay (CL)*** Brown; sl. moist; firm; 5% gravel; 95% fines.	
1	Tube	90			2			
			0.0		3		***Poorly-Graded Sand with Gravel*** Brown and red; dry; loose; 15% fibrous material (red and dark pink); 5% brick (red); 25% gravel; 55% fine sand.	
					4			
					5		wet.	
2	Tube	20			6			
			1.9		7			
					8		***Poorly-Graded Sand (SP)*** Gray; wet; loose; 5% gravel; 95% fine sand.	
			0.1		9			
3	Tube	100			10			
			0.2		11			
					12			
			0.9		13			
4	Tube	100			14			Hole is caving in. Most of 4th tube is slump from above.
			1.0		15		15% dark gray gravel grades in	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.
					16			

Log of Borehole: 01-82

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/03/01
Surface Conditions: Sand, N of Bldg. E				Date End: 12/03/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	20	0.1		0–3		***Poorly-Graded Sand with Gravel (SP)*** Brown; dry; loose; 80% fine sand; 20% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	35	0.1		4–7			
					7		***Fiberous Material*** Gray, white and dark yellow fiberous material; wet.	
3	Tube	100	0.2 0.3		8–12		***Poorly-Graded Sand (SP)*** Dark gray; wet; loose. 20% gravel grades in.	
					12–15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/03/01.

Log of Borehole: 01-83

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/04/01
Surface Conditions: Sand, Between Bldg. C & D				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; dry; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Poorly-Graded Sand with Gravel*** Brown; dry; loose; 70% fine sand; 30% gravel.	
1	Tube	65			2		Black grades in	
			4.5				5-10% cinders grade in	
					3		***Poorly-Graded Sand (SP)*** Gray; moist; loose; odor.	
			327		4		Dark gray grades in; wet; odor.	
			881		5			
2	Tube	90			6		Light gray grades in. Black grades in (peat).	
			40.5		7		Dark brown grades in. Brownish gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-84

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/04/01
Surface Conditions: Sand, Bldg. R				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP) Brown; dry; loose.	
			0.8		1		***Poorly-Graded Sand with Gravel (SP)*** Black; dry; loose; 20% gravel; 5% cinders; 75% fine sand.	
1	Tube	60			2		***Poorly-Graded Sand (SP)*** Brown; moist; loose; 10% gravel; 80% fine sand.	
							Gray grades in.	
			603		3		Red grades in.	
							Gray grades in.	
					4		Wet; oil sheen; odor.	
			730		5			
2	Tube	80			6			
			642		7		Black grades in (peat).	
							Dark brown grades in.	
							Brownish gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-85

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/04/01
Surface Conditions: Sand, Bldg. R				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; dry; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.1		1		***Poorly-Graded Sand with Gravel*** Black; dry; loose; 75% fine sand; 25% gravel; trace cinders.	
1	Tube	60			2		***Poorly Graded Sand (SP)*** Brown; moist; 5% gravel; 95% fine sand.	
			0.6		3			
					4		Wet; 15% gravel; 85% fine sand.	
			1.0		5		Gray grades in: 2% gravel; 98% fine sand.	
2	Tube	100			6			
			0.8		7		Black grades in (peat). Dark brown grades in. Brownish gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-86

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Excavation #5		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/04/01
Surface Conditions: Sand, Bldg. R				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			4.5		1			
1	Tube	75			2		Black grades in; 5% gravel; 95% fine sand. 2-5% cinders grade in.	
			55		3			
					4			
			21		5			
2	Tube	75			6		Brown grades in. Dark brown grades in.	
			19.4		7		Brown grades in. Wet.	
					8			
			0.9		9			
3	Tube	100			10		Gray grades in.	
			1.5		11			
					12		***Well-Graded Gravel (GW)*** Brown and black; wet; loose; 90% fine gravel; 10% fine sand.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					13			
					14			
					15			

Log of Borehole: 01-87

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 12/04/01
Surface Conditions: Concrete, N of Bldg. E, uneven surface				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Concrete*** Gray; dry; hard.	
			0.9		1		***Silty Sand (SM)*** Black; dry; loose.	
1	Tube	60			2		***Poorly-Graded Sand with Gravel (SP)*** Brown; dry; loose; 80% fine sand; 20% gravel.	
			0.4		3		***Fibrous Material*** Soft material; gray; white; green; orange; wet.	
					4			
			1.5		5		***Poorly-Graded Sand with Gravel (SP)*** Dark brown; sl. moist; loose; 75% fine sand; 25% gravel.	
2	Tube	70			6		***Poorly-Graded Sand (SP)*** Dark brown; wet; loose grayish brown grades in.	
			1.2		7			
					8			
			0.3		9		***Poorly-Graded Sand with Gravel (SP)*** Gray; wet; loose; 75% fine sand; 25% fine gravel.	
3	Tube	100			10			
			0.2		11			
					12			
			0.5		13			
4	Tube	100			14			
			0.9		15			
					16		dark gray grades in.	
					17		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.

Log of Borehole: 01-88

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/04/01
Surface Conditions: Asphalt, South of Bldg. A				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Asphalt*** Black; dry; hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.5		1		***Poorly-Graded Gravel with Sand (GP)*** Dark gray and brown; dry; loose; 70% medium gravel; 30% fine sand.	
1	Tube	65			2		***Poorly-Graded Sand (SP)*** Black; dry; loose; 90% fine sand; 8% medium gravel; 2% cinders.	
			0.9		3		brown grades in; gravel and cinders grade out.	
					4		wet.	
			0.1		5			
2	Tube	95			6		gray grades in; 10% medium gravel grades in.	
			0.7		7		Black peat layer; moist; 5% roots.	
					8		***Poorly-Graded Sand (SP)*** Dark gray; wet; loose.	
			0.0		9		brown grades in with 15% gravel.	
3	Tube	100			10		gray grades in.	
			0.9		11		***Well-Graded Gravel (GW)*** Dark gray; wet; loose; 90% fine gravel; 10% fine sand.	
					12		***Poorly-Graded Sand (SP)*** Gray; wet; loose.	
					13		***Well-Graded Gravel (GW)*** Dak gray; wet; loose; 80% medium gravel; 20% fine sand.	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					14		End of Borehole	
					15			

Log of Borehole: 01-89

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Future N-S Drain Line		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 12/04/01
Surface Conditions: Asphalt, South of Bldg. C				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Asphalt*** Black; dry; hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.3		1		***Silty Sand (SM)*** Black; dry; loose.	
1	Tube	75			2		***Poorly-Graded Sand with Gravel (SP)*** Brown; dry; loose; 90% fine sand; 10% gravel.	
			0.1		3		moist	
					4		wet	
			0.0		5			
2	Tube	90			6			
			0.1		7		Black peat layer; moist; 10% roots.	
							Poorly-Graded Sand (SP) Dark gray; wet; loose.	
			2.5		8		***Well-Graded Gravel (GW)*** Black and dark gray; wet; loose; 85% medium gravel; 15% fine sand; burnt odor.	
			0.7		9		***Poorly-Graded Sand with Gravel (SP)*** Dark gray; wet; loose; 65% fine sand; 35% gravel (fine).	
3	Tube	100			10		***Poorly-Graded Sand (SP)*** Gray; wet; loose; 3% gravel; 97% fine sand.	
			0.9		11			
					12			
			1.8		13			
4	Tube	90			14		15% gravel grades in; 85% fine sand.	
			1.6		15			
					16		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					17			

Log of Borehole: 01-90

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. H USTs		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/04/01
Surface Conditions: Sand, West side of excavation				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand with Gravel (SP) Dark brown; sl. moist; loose; 70% fine sand; 30% gravel.	
			1.0		1		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose; 5% gravel; 95% fine sand.	
				2'				
1	Tube	60			2			
			0.9		3			
					4		wet; 10%-15% gravel grades in.	
				4'				
			1.8		5			
2	Tube	75			6			
			0.9		7			
							Well-Graded Gravel with Sand (GW) Brown; wet; loose; 20% fine sand; 80% medium gravel.	
					8		***Poorly-Graded Sand (SP)*** Brown; wet; loose; 90% fine sand; 10% medium gravel.	
			2.2		9			
3	Tube	100			10		gray grades in.	
			3.6		11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					13			
					14			
					15			

Log of Borehole: 01-91

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. H USTs		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 12/04/01
Surface Conditions: Concrete, East side of excavation				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete Gray; dry; hard.	
			3.6		1		***Poorly-Graded Sand (SP)*** Brown; dry; loose.	
1	Tube	70		2'	2		black grades in; possible cinders.	
							brown grades in.	
			9.8		3			
				4'	4		wet.	
			4.0		5		black grades in.	
							brown grades in.	
2	Tube	90			6		gray grades in.	
							black grades in; roots; (peat).	
			2.7		7		dark gray grades in.	
					8			
			13.9		9		15% fine gravel grades in; 85% fine sand.	
3	Tube	90			10			
			7.9		11		light gray grades in.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					13			
					14			
					15			

Log of Borehole: 01-92

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. H USTs		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/04/01
Surface Conditions: Concrete, North side of excavation				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	60	3.8	2'	0		***Concrete*** Gray; dry; hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			3.1		1		***Lean Clay (CL)*** Gray; dry; medium stiff; 1% gravel; 99% fines.	
					2		***Cinders*** Black; dry; loose.	
					3		***Poorly Graded Sand (SP)*** Brown; sl. moist; loose.	
2	Tube	100	2.5	4'	4		wet; gray grades in.	
			3.2		5			
					6			
					7		black grades in; roots; (peat). dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-93

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. H USTs		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/04/01
Surface Conditions: Concrete, South side of excavation				Date End: 12/04/01
Drilling Contractor: Terra Trace		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Concrete*** Gray; dry; hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			16.3		1		***Poorly-Graded Sand with Gravel (SP)*** Dark brown; sl. moist; 80% fine sand; 20% gravel.	
1	Tube	60		2'	2		***Poorly-Graded Sand (SP)*** Brown; sl. moist; loose.	
			15.3		3		4" layer: 80% sand; 10% cinders; 5% transite pieces.	
							Poorly-Graded Sand (SP) Brown; sl. moist; loose; 90% fine sand; 10% gravel.	
				4'	4			
			12.3		5		black grades in (peat).	
2	Tube	80			6		gray grades in. brown grades in.	
			15.4		7			
					8		gray grades in.	
					9			
3	Tube	30			10			
			21.7		11		dark gray grades in; 15% gravel grades in.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/04/01.
					13			
					14			
					15			

Log of Borehole: 01-94

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/10/01
Surface Conditions: Pavement				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0				***Concrete*** Gray, hard.	
			0		1		***Cinders*** Dark brown; moist; loose.	
				2'			***Well Graded Gravel (GW)*** Pale gray; dry; loose.	
1	Tube	75			2		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense.	
			0					
				3'	3			
			0					
					4			
			0					
					5		grading wet at 5'.	
			0					
2	Tube	80			6			
			0				grading yellowish-brown.	
					7			
			0					
					8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-95

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/10/01
Surface Conditions: Pavement				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Concrete*** Gray, hard, dry.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Well Graded Gravel (GW)*** Gray; dry; moderate dense.	
			0				***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	
1	Tube	70			2			
			0					
			0		3			
					4		grading wet at 4.2'.	
			0					
			0		5			
2	Tube	100			6		grading brown at 6'.	
			0		7			
			0				grading dark gray; 5% roots (black, fibrous).	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-96

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/10/01
Surface Conditions: Pavement				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	70	0	
			0	
			0	2'
			0	3'
2	Tube	80	0	
			0	
			0	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
		Concrete Gray, dry, hard.	
1		***Well Graded Gravel (GW)*** Gray; dry; moderate dense.	
		Well Graded Sand (SW) Dark grayish-brown; moist; moderate dense; 25% cinders; 75% fine to coarse sand.	
2		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	
3			
4			
5		grading wet at 5'.	
6		30% medium sand grades in.	
7		grading brown; trace (<5%) roots; 1% coal as individual nickel size clast.	
8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
9			
10			
11			
12			
13			
14			
15			

Log of Borehole: 01-97

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/10/01
Surface Conditions: Pavement				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Concrete*** Gray, dry, hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Poorly Graded Gravel (GP)*** Gray; moist; moderate dense.	
1	Tube	70			2		***Poorly Graded Sand (SP)*** Dark gray to black; moist; fine to coarse sand; 50% sand; 50% cinders.	
			0				***Well Graded Sand (SW)*** Yellowish-brown; moist; moderate dense; fine sand.	
			0		3			
			0		4			
			0		5		grading wet at 5'.	
2	Tube	95			6			
			0		7		grading gray at 7'.	
			0		8		grading brown at 7.5' with 15% roots woody material; slight sewer or musty odor.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-98

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 12/10/01
Surface Conditions: Pavement				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Asphalt Gray, dry, hard.	
					1		***Well Graded Gravel (GW)*** Gray; moist; moderate dense.	
							Well Graded Sand with Gravel (SW) Dark brown; moist; moderate dense; 60% fine to coarse sand; 30% gravel; 10% cinders.	
1	Tube	70		2'	2		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	
				3'	3			
					4		grading wet at 4.5'.	
					5			
2	Tube	100			6		grading brown at 6'.	
					7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-99

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: South edge Bldg A Foundation				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	60	0	
			0	
			0	
2	Tube	50	0	
			0	6'
			0	
			0	7'
3	Tube	80	0	
			2.1	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
		Ground Surface	
0		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand with 2% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1			
2			
3			
4			
5			
6		30% medium gray sand grades in at 6'.	
7		grading wet at 7'; yellowish-brown.	
8			
9			
10		grading at 10' decomposed grading brown; 100% woody /organic material.	
11		organic/ woody material grades out at 11'. ***Sand (SP)*** Brownish-yellow; moist; fine to medium; 10% gravel.	
12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
13			
14			
15			

Log of Borehole: 01-100

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: South edge Bldg A Foundation				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	60	0	
			0	
			0	
2	Tube	75	0	5.5'
			0	6'
			100	
3	Tube	85	500	
			20	
			0	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense; 85% fine sand; 15% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1		gravel grades out at 1'.	
2			
3			
4			
5			
6		grading grayish-brown; wet at 6.5'.	
7			
8		grading pale gray with solvent odor.	
9			
10			
11		***Organic Material*** Dark brown; moist; moderate dense texture; woody and fibrous material.	
12		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; 85% fine to medium sand; 15% gravel.	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
13		End of Borehole	
14			
15			

Log of Borehole: 01-101

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: South edge Bldg A Foundation				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0 0 0 0		0–12		***Poorly Graded Sand (SP)*** Yelloish-brown; moist; moderate dense; 90% fine sand; 10% gravel. gravel grades out at 1'.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	80	0 0 0 0	5' 6'			grading wet at 7'.	
3	Tube	40	0 0					
					12		***Organic/ Woody Material*** Dark brown; wet; moderate dense; decomposing wood.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.

Depth (ft): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Log of Borehole: 01-102

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: Bldg A, Sheeter supply line				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	80	0	
			0	
			0	
2	Tube	90	0	5'
			0	6'
			0	
			0	
3	Tube	100	1.2	
			2.1	
			0	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1			
2			
3			
4			
5			
6		grading yellowish-brown; wet at 6.5'.	
7			
8			
9		pale grayish-brown with sewer odor.	
10			
11		***Organic*** Dark grayish-brown; moist, woody.	
12		***Poorly Graded Sand (SP)*** Brown; moist; moderate dense.	
		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
13			
14			
15			

Log of Borehole: 01-103

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: Bldg A, Sheeter supply line				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; 5% gravel/brick.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	50			2			
			0		3			
			0		4			
				5'	5			Exact sample interval not known; assumed to be between 5 and 7 feet.
2	Tube	30	58		6		possible wet at 6.5' to 7'.	
			14	7'	7			
			14		8			
					9			
			4000				grading gray; sewer and solvent odor.	
3	Tube	90	2500		10			
			101		11		***Organic*** Dark brown; moist.	
			33				***Poorly Graded Sand (SP)*** Yellowish-brown; moist to wet; moderate dense.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-104

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: Bldg A, Sheeter supply line				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	20	0		1		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		2			
					3			
			0		4			
			0	5'	5			
2	Tube	60	0	6'	6			
			0		7		grading wet at 7'.	
			0		8		grading dark gray at 8' with solvent odor.	Sluff from 8' to 9'.
			sluff		9			
3	Tube	60	2800		10			
			895				***Organic Material*** Dark gray; wet.	
			7.3		11		***Well Graded Sand (SW)*** Yellowish-brown; wet; moderate dense; fine to coarse sand.	
			0.5		12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-105

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile: Bldg A, East Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	70	0, 0, 0, 0	
2	Tube	80	0, 0, 0, 0	5', 6'
3	Tube	90	0, 0, 0, 0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1, 2, 3, 4, 5			
6		grading wet at 6'.	
7			
8		grading grayish-brown at 7'; no odor.	
9			
10		***Organic Material*** Dark brown; moist; moderate dense; peat texture.	
11		***Well Graded Sand (SW)*** Yellowish-brown; wet; moderate dense; fine to coarse sand with 15% gravel (all rounded).	
12		***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; fine sand.	
		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
13, 14, 15			

Log of Borehole: 01-106

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** South Tank Farm	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12' / **Elevation:**	**Date Start:** 12/10/01
Surface Conditions: Sand Pile, Bldg A, East Center Sheeter			**Date End:** 12/10/01
Drilling Contractor: Terra Trace Environmental		**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood

SAMPLE DATA / SUBSURFACE PROFILE

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	50	0		2			
			0		3			
					4			
				5'	5			
			0					
2	Tube	50			6			
			0	6'			grading wet at 6.5'.	
					7			
			0					
					8		***Well Graded Sand (SW)*** Yellowish-brown; wet; moderate dense; fine to coarse sand.	
			50					
			1170		9			
			300					
3	Tube	90	456		10		***Poorly Graded Sand (SP)*** Gray; wet; moderate dense; fine sand.	
			150					
			5.5		11		***Organic Material*** Dark gray; moist; moderate dense; texture of compacted peat.	
			0				***Poorly Graded Sand (SP)*** Grayish-brown; wet; moderate dense; fine to medium sand.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-107

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile, Bldg A, West Center Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			0		3			
			0		4			
			0					
			0	5'	5			
			0					
2	Tube	75		6'	6			
			0				grading wet at 6.5'.	
					7			
			107					
					8		grading gray at 7.8'.	
			238				solvent odor.	
			1300		9			
			1700					
3	Tube	90	70		10			
			7				***Organic Material*** Dark gray; moist; moderate dense; 5% fines; compressed peat texture.	
			2		11			
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; fine to medium sand.	
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-108

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile, Bldg A, West Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine grained.	Boring advanced with a geoprobe using a *2" OD by 4' long* macrotube sampler.
			0		1			
1	Tube	60	0		2			
			0		3			
					4			
				4.5'				
			0		5			
				5'				
							grading wet at 5.5'.	
2	Tube	80	0		6			
			5					
			300		7			
			1100				grading gray at 7.2'.	
					8			
			6500		9			
3	Tube	95	121		10			
			3		11		***Organic Material*** Dark gray to black; moist; moderate dense; fine grained matrix; peat like.	
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; fine to medium sand.	
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-109

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Soil Pile, Bldg A, South of Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	25			2			
			0		3			
					4			
			0		5			
2	Tube	70	0		6			
							grading gray at 7.2'.	
			1700		7			
			2700		8			
			700					
					9			
			300					
3	Tube	85			10			
			0				***Lean Clay with Organic Material (CL)*** Dark gray; moist; firm; peat like.	
					11		***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; medium grained sand.	
			0					
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-110

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Soil Pile, Bldg A, 50' South Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	60	0	
			0	
			0	
2	Tube	70	0	
			0	
			0	
			2	
3	Tube	90	0	
			0	
			0	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1			
2			
3			
4			
5			
6		grading yellowish-brown; wet at 6'.	
7			
8			
9			
10		***Organic Material*** Dark orange-brown; moist; moderate dense; peat like.	
11		***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; medium grain.	
12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
13			
14			
15			

Log of Borehole: 01-111

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Soil Pile, Bldg A, 25' West Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine grain.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	20			2			
					3			
					4			
			0					
					5		grading yellowish-brown; wet at 5'.	
			0					
2	Tube	80			6			
			0					
					7			
			0					
					8		grading dark brown with 2% roots at 7.6'. grading brownish-yellow, roots grade out at 8'.	
			0					
					9			
			0					
3	Tube	90			10		grading yellowish-brown; medium grain sand at 10'.	
			0					
					11			
			0					
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.
					13			
					14			
					15			

Log of Borehole: 01-112

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/10/01
Surface Conditions: Sand Pile, Bldg A, 25' North Sheeter				Date End: 12/10/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	75	0 0 0 0		0–5		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine grain.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	20	0		5–8		***Well Graded Gravel (GW)*** Reddish-brown to yellowish-brown; moist; dense; sub rounded 0.5" to <2" diameter gravel.	
3	Tube	95	0 0 0 0		8–12		***Well Graded Sand with Gravel (SW)*** Yellowish-brown; wet; moderate dense; 70% fine to coarse sand; 30% gravel. ***Poorly Graded Sand (SP)*** Gray; moist; moderate dense; fine grain. ***Organic Material*** Dark gray; moist; moderate dense; peat like. ***Poorly Graded Sand (SP)*** Grayish-brown; wet; moderate dense; medium grain sand.	
					12–15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/10/01.

Log of Borehole: 01-113

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, Sheeter Supply Line				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	20			2			
			0					
					3			
					4			
			0					
					5			
			0					
2	Tube	80			6		grading wet at 6'.	
			0		7			
			0				grading brown at 7.6'; slight sewer odor.	
					8			
					9			
3	Tube	15	0		10			
					11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-114

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 50' East Sheeter				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	40			2			
			0		3			
					4			
			0		5			
2	Tube	85			6			
			20				grading wet at 6.2'.	
			24		7			
			3000		8		grading gray at 7.8'; solvent odor.	
					9			
			4500					
3	Tube	70			10			
			3000					
					11			
			0				***Organic Material*** Dark brown; moist; moderate dense; 15% fines.	
			2		12		***Well Graded Sand with Gravel (SW)*** Brown; moist to wet; moderate dense; 65% well graded sand, 35% gravel (rounded).	
					13		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					14			
					15			

Log of Borehole: 01-115

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, North Sheeter Supply				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			217		1			
1	Tube	60	120		2			
			15		3			
					4			
			0		5			
			0					
2	Tube	70	8.3		6			
			60				grading wet at 6.4'.	
			4000		7		grading dark gray at 7.4'.	
					8			
			1900		9			
			1700				grading brownish-gray at 9.5'.	
3	Tube	60			10			
			60		11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-116

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, NS @ Column E, 11.5'				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	40	0	
			9.4	
			0	
2	Tube	75	0	
			0	
			0	
3	Tube	95	0	
			0	
			0	
			0	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1			
		concrete nodule at 1.5'.	
2			
3			
4			
5			
6		grading wet at 6'; yellowish-brown.	
7			
8			
9		grading brown.	
10			
11		***Organic Material*** Dark brown; moist; moderate dense; "peat like".	
		Well Graded Sand (SW) Brown; moist to wet, moderate dense; 55% well graded sand; 45% gravel.	
12		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense; medium grain sand.	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
13		End of Borehole	
14			
15			

Log of Borehole: 01-117

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 40'N 65'W of Sheeter				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA / SUBSURFACE PROFILE

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine grain.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	70	0		2			
			0		3			
					4			
			0		5			
2	Tube	75			6		grading wet at 6'.	
			0		7			
			3500				grading gray at 7.4'.	
					8			
			65		9			
3	Tube	75	430		10		***Organic Material*** Dark brown; moist; moderate dense; peat.	
			0		11		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense; medium grained.	
			0		12			
					13		*End of Borehole*	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					14			
					15			

Log of Borehole: 01-118

LFR LEVINE·FRICKE	**Client:** Johns Manville	**Project:** South Tank Farm	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8' / **Elevation:**	**Date Start:** 12/11/01
Surface Conditions: Sand Pile, Bldg A, 25'N 30'W of Sheeter			**Date End:** 12/11/01
Drilling Contractor: Terra Trace Environmental	**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine grain.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	0		2			
			6.3		3			
					4			
					5			
			0					
2	Tube				6			
			0				grading wet at 6.2'.	
					7			
			1300				grading dark gray at 7.5'.	
					8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-119

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 25'N 15'W of Sheeter				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	*Boring advanced with a* geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	0		2			
			0		3			
					4			
					5			
			6					
2	Tube				6		grading wet at 6'.	
			208					
					7		grading gray at 7'.	
			1200					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-120

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 45'N 15'E of Sheeter				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	0		2			
			0		3			
					4			
					5			
			0					
2	Tube	85			6			
			0				grading wet at 6.4'.	
					7			
			10					
					8		grading gray at 7.8'.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-121

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 5'SW of 01-115				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine grained.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
			0					
1	Tube	70			2			
			0					
			0		3			
			0					
			1.6		5			
2	Tube	85	0		6		grading wet at 6'.	
			0		7			
			3000				grading dark gray at 7.5'.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-122

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 2'N of 01-115				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			84		1			
1	Tube	50	70		2			
			0		3			
					4			
			0		5			
			0					
2	Tube	70			6		grading wet at 6'.	
			0		7			
			1900				grading gray at 7.6'.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-123

LFR LEVINE·FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 2'E of 01-115				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0		1		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	60	0		2			
			0		3			
					4		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-124

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, 50'E 45'N Sheeter				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
1	Tube	5	0	
2	Tube	30	0 0	
3	Tube	100	25 3500 464 4 0.3	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
0		Ground Surface	
		Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1			
2			
3			
4			
5			
6		grading wet at 6'.	
7			
8			
9		grading gray at 8.5'.	
10		***Organic Material*** Dark brown; moist; moderate dense; peat.	
11		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense; 10% gravel.	
12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
13			
14			
15			

Log of Borehole: 01-125

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	50	0		2			
			0		3			
					4			
			0		5			
2	Tube	75			6		grading wet at 6'.	
			0.5		7			
			4.5				grading brown/ grayish-brown at 7.7'.	
					8			
			0		9			
3	Tube	75	0		10			
			0		11			
			4.5				***Organic Material*** Dark brown; moist; moderate dense; peat.	
					12		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense; medium grain sand.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-126

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, North "New" Return				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA / SUBSURFACE PROFILE

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			54		3		***Cinders and Asphalt*** Black; hard; dry.	Refusal at 3 locations approx. 2'-3' bgs.
					4		***Concrete*** Gray; hard; dry.	Boring at 5' NE of original location.
			0	5'			***Cinders*** Black; moderate dense; dry.	
					5		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; medium grain sand.	
			64	5.5'				
2	Tube	90			6		grading gray; wet at 6'.	
			300				solvent odor.	
					7			
			4600					
					8			Sluff 8'-10'.
					9			
3	Tube	50	3500		10			
			4600		11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-127

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, South "New" Return				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	80	6		0–3		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			27					
			34		3–4		***Cinders and Asphalt*** Black; dry; moderate dense; 10% gravel.	
2	Tube	90	53	5'	4–12		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	
			16	5.5'			grading wet at 6'.	
			3500				grading gray at 6.6', solvent odor.	
3	Tube	90	2300					
			125				grading brown at 10'.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-128

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, South "Old" Return				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	7		1		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			25		2			
			33		3			
					4			
				5'	5			
			43	5.5'				
2	Tube	50			6		***Well Graded Sand (SW)*** Yellowish-brown; wet; moderate dense; fine to coarse sand.	
			60		7			
					8			
			474		9			
3	Tube	100			10			
			37		11			
					12		***Organic Material*** Dark brown; moist; moderate dense.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-129

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/11/01
Surface Conditions: Sand Pile, Bldg A, North "Old" Return				Date End: 12/11/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine.	
			3		1			
1	Tube	55	6.7		2			
			15.2		3			
					4			
			67	5'	5			
				5.5'				
2	Tube	60	274		6		grading wet at 6'; medium grained.	
			328		7			
					8		grading grayish-brown at 7.6'.	
					9			
			160					
3	Tube	40			10			
			226		11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/11/01.
					13			
					14			
					15			

Log of Borehole: 01-130

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/12/01
Surface Conditions: Sand Pile, Bldg A, South Solvent Rec.				Date End: 12/12/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	16		2			
			144		3		grading gray at 3'.	Ground surface approximately 2' above SR floor.
					4		grading wet at 4'.	
					5			
2	Tube	70	>9999		6			
			6500		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-131

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8' / **Elevation:**	**Date Start:** 12/12/01
Surface Conditions: Sand Pile, Bldg A, SW Solvent Recovery			**Date End:** 12/12/01
Drilling Contractor: Terra Trace Environmental		**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			16		1			
1	Tube	75	123		2			
			0		3			GS approximately 4' above SR floor. Headspace of 2' sample 0 ppm 5 minutes after bagging.
					4			
			0.6		5			
2	Tube				6		grading wet at 6'.	
			480		7		grading grayish-brown at 7'.	
			4500				grading gray at 7.5'.	
					8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-132

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/12/01
Surface Conditions: Sand Pile, Bldg A, S Solvent Recovery				Date End: 12/12/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			16					
1	Tube	50			2			Soil at 2.5' stains sampling equipment.
							grading dark reddish-brown; strong "airplane glue" odor.	
			9500	3.5'	3			
			>9999					
					4			Ground surface approximately 2' above Solvent Recovery floor.
				4'				
					5			
			600					
2	Tube	60			6		grading wet at 6'.	
							grading gray at 6.5'.	
			>9999		7			
			>9999					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-133

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8'	**Elevation:**	**Date Start:** 12/12/01
Surface Conditions: Sand Pile, Bldg A, SRR S of Foundation				**Date End:** 12/12/01
Drilling Contractor: Terra Trace Environmental		**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brownish-yellow: moist: moderate dense: fine.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			20					
1	Tube	50			2			
			900				approximately 0.2' of heavy angular gravel at 2.5'.	Ground surface approximately 3' above Solvent Recovery floor.
					3		***Well Graded Sand (SW)*** Dark brown: moist: moderate dense: fine to coarse sand.	
			1800					
					4			
							Poorly Graded Sand (SP) Mottled via 0.25 in max laminations of brownish-yellow and brown; moist: moderate dense: fine sand.	
					5			
			3000					
2	Tube	75			6			
			>9999				grading gray. wet at 6.5'	
					7			
			6000					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-134

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8' / **Elevation:**	**Date Start:** 12/12/01
Surface Conditions: Sand Pile, Bldg A, S of SR Foundation			**Date End:** 12/12/01
Drilling Contractor: Terra Trace Environmental		**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube	15			2			Ground surface approximately 3.5' above Solvent Recovery floor.
					3			
			1129					
					4			
					5		grading dark brown at 3.6'.	
			>9999				grading brown at 5.5'.	
2	Tube	80			6			
			>9999				grading wet at 6'.	
					7			
			>9999					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-135

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/12/01
Surface Conditions: Sand Pile, Bldg A, SE Solvent Recovery				Date End: 12/12/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA / SUBSURFACE PROFILE

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			0					
1	Tube	60			2			
			0					Ground surface approximately 3' above Solvent Recovery floor.
			51		3		***Well Graded Sand (SW)*** Dark brown; moist; loose; fine to coarse sand.	
			51					
					4		slight "glue" odor.	
			1200		5		strong odor	
			>9999				***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	
2	Tube	70			6			
			>9999				grading wet at 6.5'.	
					7		***Well Graded Sand (SW)*** Yellowish-brown; wet; moderate dense; fine to coarse sand.	
			>9999					
					8			
			>9999		9			
3	Tube	100			10			
							Organic Material Brown; moist; moderate dense; peat; woody material.	
			400		11			
							Poorly Graded Sand (SP) Grayish-brown; wet; moderate dense; medium sand.	
			20		12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/12/01.
					13			
					14			
					15			

Log of Borehole: 01-136

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A, SE Solvent Recovery				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	80			2			
			0					
			0		3			
					4		***Asphalt*** Black; moist; dense; 30% concrete aggregate or underlay; highly weathered.	
			0				***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	
			0		5			
2	Tube	90			6			
			0				grading wet at 6.5'; yellowish brown.	
			0		7			
			0		8		10% coarse sand; 5% gravel grades in.	
			0		9			
			0					
3	Tube	90			10		grading grayish-brown with "sewer" odor; coarse sand and gravel grade out.	
			0		11			
			0				***Organic Material*** Dark brown; moist; dense; peat/ woody material.	
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					13			
					14			
					15			

Log of Borehole: 01-137

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			0					
1	Tube	60			2			
			0		3			
			1718					
			206				grading dark brown; "airplane" glue odor at 3.4'.	
					4		grading yellowish-brown at 3.8'.	
					5			
2	Tube	10	488		6			
					7		grading wet at 7'.	
					8		grading brown; "airplane" glue odor.	
					9			
			970					
3	Tube	30			10			
			260					
					11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					13			
					14			
					15			

Log of Borehole: 01-138

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			12					
1	Tube	50			2			
			3		3			
			115				grading brown at 3.5'.	
					4			
			97		5			
2	Tube		2500		6		grading wet at 6.2'.	
			4600		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-139

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand; 5% gravel.	
			98		1			
1	Tube	60			2			
			6					
					3			
			12					
					4			
					5			
			77					
2	Tube	70			6			
			1906				grading wet at 6.2'; brown.	
			2784		7			
			743					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-140

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	50			0–3		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			248		3		***Well Graded Sand (SW)*** Dark brown; moist; loose; 90% poorly graded sand; 10% gravel; slight "airplane" glue odor.	Ground surface approximately 3' above solvent recovery room floor.
			150		4		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand.	
			3250		5			
2	Tube	60	>9999		6		grading wet at 6'.	
			>9999		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-141

LFR LEVINE-FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; 5% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	50	24		2			
			34		3			Ground surface approximately 4' above solvent recovery room floor.
					4			
					5			
			65					
2	Tube	75	570		6			
			>9999		7		grading grayish-brown; wet at 6.6'.	
			>9999		8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-142

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube	60	20		2		very faint odor.	
					3			Ground surface approximately 4' above solvent recovery room floor.
			25		4			
					5		faint odor.	
			800					
2	Tube	60			6			
			7300		7		grading gray; wet at 7'; strong odor.	
			>9999					
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-143

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			0.9					
1	Tube	60			2			
			0					
					3			Ground surface approximately 4'-5' above solvent recovery room floor.
			0					
					4			
					5			
			0					
2	Tube	60			6			
					7		***Well Graded Sand (SW)*** Yellowish-brown; moist; moderate dense; fine to coarse sand with 15% gravel.	
			5.5					
			1				grading wet at 7.4'.	
					8		***Poorly Graded Sand (SP)*** Yellowish-brown; wet; moderate dense; fine sand.	Boring backfilled to ground surface with *bentonite pellets on* 12/13/01.
					9			
3	Tube	60	1		10		grading brown at 10'.	
					11			
			4					
					12		End of Borehole	
					13			
					14			
					15			

Log of Borehole: 01-144

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand Pile, Bldg A Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Poorly Graded Sand (SP)*** Brownish-yellow; moist; moderate dense; fine sand; 5% gravel.	
1	Tube	65	0		2			
			0		3			
					4			
			0		5			
2	Tube	60	0		6			
			0		7		grading yellowish-brown; wet at 6.6'.	
					8			
			0		9		grading brown at 9'.	
3	Tube	90	0		10			
			0		11			
					12		***Organic Material*** Dark brown; moist; moderate dense; peat/woody material.	
							Poorly Graded Sand (SP) Brown; wet; moderate dense.	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					13		End of Borehole	
					14			
					15			

Log of Borehole: 01-145

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: North Side Bldg A North Foundation				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; 5% coarse sand; 10% gravel; 85% fine sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			33					
1	Tube	60			2			Ground surface approximately 0.5' above near by concrete floor.
			25					
					3			
			629		4		grading brown; wet at 3.8'.	
								First soil boring netted 5% and 0% recovery for samples 112. Offset 2' for new 01-145.
			3700		5		grading grayish-brown at 5'.	
2	Tube	60	103		6			
			413		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-146

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/13/01
Surface Conditions: Sand, Old North Foundation Wall Bldg A				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Well Graded Sand with Gravel (SW)*** Yellowish-brown; moist; dense; 60% well graded sand; 40% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube	60			2			PID pump failed.
					3			
					4		grading wet at 4.5'.	
					5		grading dark gray at 5'; with vari-colored sheen 0.3' from approximately 5.3-5.6'.	
2	Tube	70			6			
					7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-147

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 4'	Elevation:	Date Start: 12/13/01
Surface Conditions: Bare soil; H Bldg area; North				Date End: 12/13/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	70		2.4'	1		***Lean Clay (CL)*** Strong brown; moist; firm; 10% gravel.	
					2		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense.	
					3		***Paste Silty Clay*** White; soft; moist; 20% sand.	
				4'	4		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-148

LFR LEVINE·FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 4' / **Elevation:**	**Date Start:** 12/13/01
Surface Conditions: Bare soil; H Bldg area; South			**Date End:** 12/13/01
Drilling Contractor: Terra Trace Environmental		**Driller:** S. Craigie	**Geologist/Engineer:** J. Chitwood

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Lean Clay (CL)*** Strong brown; moist; moderate dense; firm.	
				2'			***Well Graded Sand (SW)*** Dark brown; dry; loose; 30% cinders; 20% fines.	
1	Tube	80			2		***Paste*** White; firm moist.	
				2.8'	3		***Fiber Matte*** Pale olive; moist; firm.	
							Paste White; moist; soft; 20% pale yellowish-orange paste/grains.	
					4		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/13/01.
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-149

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/14/01
Surface Conditions: Asphalt; South of Bldg A				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA / SUBSURFACE PROFILE

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Asphalt Gray; dry; hard.	
			0		1		***Well Graded Gravel with Sand (GW)*** Gray to grayish-brown; dry; loose; 60% well graded gravel; 40% well graded sand.	
1	Tube	75	0	2.5'	2		***Cinders*** Dark grayish-brown; dry; loose; well graded sand.	
							Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense; 5% gravel.	
			0	3'	3			
			0		4			
					5		grading wet at 5'.	
			0					
2	Tube	90			6		grading brown; 15% gravel at 6'.	
			0		7			
			0					
					8		***Organic Material*** Dark brown; moist; moderate dense; peat/woody.	
							Poorly Graded Sand (SP) Brown; wet; moderate dense; medium sand.	
			0		9			
3	Tube	60			10			
			0		11			
					12			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					13			
					14			
					15			

Log of Borehole: 01-150

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 3'	Elevation:	Date Start: 12/14/01
Surface Conditions: Asphalt; South of Bldg A				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0				***Asphalt*** Gray; dry; hard.	
					1		***Well Graded Gravel with Sand (GW)*** Brown; moist; moderate dense; 60% gravel; 40% well graded sand.	
1	Tube	70	5				***Well Graded Sand with Gravel (SW)*** Dark to moderate brown; moist; moderate dense; 60% sand; 25% well graded gravel; 15% well graded cinders.	
					2			
			6					
					3		Refused on concrete.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-151

LFR LEVINE•FRICKE	Client: Johns Manville	Project: South Tank Farm		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Bare, gravely soil south of Bldg A				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Well Graded Gravel (GW)*** Gray; moist; moderate dense; 20% fines.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0.5		1		***Well Graded Sand (SW)*** Dark brown; moist; moderate dense; 60% well graded sand; 30% well graded cinders; 10% gravel.	
1	Tube	70			2			
			0		3		***Poorly Graded Sand*** Yellowish-brown; moist; moderate dense; 5% gravel.	
					4			
					5		grading wet at 4.5'.	
							grading dark gray at 5.5'.	
2	Tube	100	300		6			
			700					
			55		7		grading brown with 2% roots at 6.8'.	
			28		8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-152

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Sand pile; Bldg A north side				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
			0					
1	Tube	60			2			Ground surface is approximately 1' above loading dock floor.
			0					
					3			
			1					
					4		grading wet at 4'.	
			0		5		grading brown at 5'.	
2	Tube	50	0		6			
			0		7			
					8		***Organic Material*** Dark brown; moist; moderate dense; peat/woody/leafy material.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-153

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Concrete Road				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	50	2100	2'	1		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense; 5% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			3600	2'	2			Ground surface approximately 0.5' above Solvent Recovery floor.
			300		3			
					4			
					5			
2	Tube	60	4900		6			
			2000		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-154

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Solvent room floor				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete Gray; dry; hard.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense.	
1	Tube	40	2500		2			
					3			
					4		grading wet at 4'.	
			905		5			
2	Tube	80	3800		6		grading grayish-brown with sheen at 5.5'.	
			2000		7			
			63		8		grading brown; no sheen at 7.5'.	
					9		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-155

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Solvent room floor				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	50			2		***Well Graded Sand (SW)*** Dark brown; moist; moderate dense; 60% sand; 40% cinders.	
			0				***Poorly Graded Sand (SP)*** Yellowish-brown; moist; moderate dense.	
			0		3			
					4			
			0					
					5		grading wet at 5'.	
			150				grading grayish-brown at 5.5'.	
2	Tube	75			6		grading brown at 6'.	
			0					
					7		***Organic Material*** Dark brown; moist; moderate dense.	
			0				***Poorly Graded Sand (SP)*** Brown; wet; moderate dense; medium sand.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-156

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Bare Soil				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	5	0		1, 2, 3		***Well Graded Gravel with Sand (GW)***	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler. East edge of fill area.
2	Tube	20	260 0		4, 5, 6, 7		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9, 10, 11, 12, 13, 14, 15			

Log of Borehole: 01-157

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Bare soil in excavation backfill				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA

Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample
			0	
1	Tube	60	600	
			1200	
			2800	
2	Tube	70		
			900	
			0	

SUBSURFACE PROFILE

Depth (ft)	Symbol	Soil Description	Remarks
		Ground Surface	
0		***Well Graded Gravel with Sand (GW)*** Dark brown; moist; moderate dense; 60% gravel; 25% sand; 15% fines.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1		***Well Graded Sand (SW)*** Dark brown; moist; moderate dense; 40% cinders.	
		Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense.	
2			
3			
4		grading wet at 4'.	
5			
		grading grayish-brown with sheen at 5.5'.	
6			
		grading brown; no sheen.	
7		***Organic Material*** Dark brown; moist; moderate dense; peat.	
8		***Poorly Graded Sand (SP)*** Brown; wet; moderate dense.	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
		End of Borehole	
9			
10			
11			
12			
13			
14			
15			

Log of Borehole: 01-158

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 26; Bldg B		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8'	Elevation:	Date Start: 12/14/01
Surface Conditions: Sand				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Yellowish-brown; moist; moderate dense; fine to medium sand with 15% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	25	0		2			
					3			
					4		grading wet at 4'.	
			0		5			
			0		6		grading brown; dense; fine grained at 6'.	
2	Tube	100	0		7			
			0					
					8		***Organic Material*** Dark brown; moist; moderate dense; peat.	
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 01-159

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 26; Bldg B		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16'	Elevation:	Date Start: 12/14/01
Surface Conditions: Sand pile; Bldg B foundation				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; 5% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	0		2			Ground surface approximate 6-7' above road.
			0		3			
					4			
			0		5			
2	Tube	75	0		6			
			0		7			
					8			
			0		9			
							grading yellowish-brown; wet at 9.5'.	
3	Tube	80	0		10			
			0		11			
							grading pale gray at 11.5'.	
					12			
			0		13			
4	Tube	60	0		14			
							Organic Material Dark brown; moist; moderate dense; peat, woody.	
			0		15		***Poorly Graded Sand (SP)*** Grayish-brown; wet; moderate dense; medium sand.	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					16		End of Borehole	

Log of Borehole: 01-160

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 26; Bldg B		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/14/01
Surface Conditions: Sand pile; Bldg B Foundation				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; 5% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			0		3			
					4			
			0		5			
2	Tube	70	0		6			
			0		7			
					8			
			0		9			
3	Tube	70	0		10		grading yellowish-brown; wet at 9.5'.	
			0		11		grading gray at 10.5'.	
					12			
					13		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					14			
					15			

Log of Borehole: 01-161

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 26; Bldg B		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 12/14/01
Surface Conditions: Sand pile; Bldg B Foundation				Date End: 12/14/01
Drilling Contractor: Terra Trace Environmental		Driller: S. Craigie	Geologist/Engineer: J. Chitwood	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brownish-yellow; moist; moderate dense; 5% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60	0		2			
			0		3			
					4			
			0		5			
2	Tube	80	0		6			
			0		7			
					8			
			0		9			
3	Tube	70	0		10		*grading yellowish-brown; wet at 9.5'.*	
			0		11			
					12			
					13		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 12/14/01.
					14			
					15			

Log of Borehole: 02-01

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Piping		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Asphalt and concrete				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Concrete	
			0.5		1		***Poorly-Graded Sand (SP)*** Brown; moist; loose.	
1	Tube	50		2'	2			
			0.2		3			
					4		gray grades in.	
				4'				
			0		5			
2	Tube	70			6		3" black layer; wet. dark gray grades in.	
			0		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-02

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 003 Piping		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Sand				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
1	Tube	50	0		0		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 5% fine gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0	4'	1			
2	Tube	70	0		2			
			0	6'	3			
					4			
					5			
					6		dark gray grades in; wet.	
					7		3" layer of black peat.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-03

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D Gas Dispenser		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 6/11/02
Surface Conditions: Sand				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	50	0 0 35	2'	1 2 3		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 5% fine gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
2	Tube	70	352 1906	4'	4 5 6 7		gray grades in; wet; petroleum odor. 1" layer black peat. dark gray grades in.	
3	Tube	75	654		8 9 10 11			
					12 13 14 15		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.

Log of Borehole: 02-04

LFR LEVINE·FRICKE	**Client:** Johns Manville	**Project:** Bldg. D Gas Dispenser	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 6/11/02
Surface Conditions: Sand			**Date End:** 6/11/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Carl	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE		
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft) / Symbol	Soil Description	Remarks
						Ground Surface	
1	Tube	60	0		0	***Poorly-Graded Sand (SP)*** Brown; dry; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1, 2, 3		Boring elevation is approximately 3' above street level.
2	Tube	60	0	5'	4, 5		
			1040	7'	6, 7	2" layer black.	
					8	gray grades in: wet; petroleum odor.	
3	Tube	80	1900		9, 10, 11	dark brown grades in.	
					12	End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					13, 14, 15		

Log of Borehole: 02-05

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. D Gas Dispenser		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 6/11/02
Surface Conditions: Sand				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Brown; dry; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	60	0		1, 2			
			0		3			Boring elevation is approximately 3' above street level.
					4			
			0	5'	5			
2	Tube	60			6			
			0	7'	7			
					8		gray grades in. wet.	
					9			
3	Tube	80	0		10		3" thick black layer. brownish gray grades in.	
					11			
					12		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					13			
					14			
					15			

Log of Borehole: 02-06

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Piping		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Asphalt and concrete				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Asphalt	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Concrete	
					1		***Poorly-Graded Sand (SP)*** Brown; moist; loose; 5% fine gravel.	
1	Tube	60	75		2			Boring location is on Front Street in large puddle of water approximately 4-5" deep.
				3'	3			
					4			
			1551	5'	5			
2	Tube	65			6		gray grades in; petroleum odor. 2" layer black peat layer.	
			2358		7		brownish gray sand grades in; wet.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-07

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 003 Excavation		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Asphalt				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
					1		***Poorly-Graded Sand (SP)*** Brown; dry; loose; 5% med. gravel.	
1	Tube	60	0	2'	2			
			0		3			
					4			
				4'	5		wet.	
2	Tube	70	0		6		gray grades in. black grades in. dark gray grades in.	
			13.5		7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-08

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 003 Excavation		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Asphalt				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Asphalt	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly-Graded Sand (SP)	
			0		1		Brown; dry; loose; 5% fine gravel.	
1	Tube	70	0	2'	2			
			0		3			
				4'	4			
					5		wet; petroleum odor.	
2	Tube	80	18		6		gray grades in.	
					7			
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-09

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 003 Excavation		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Sand				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	60	0	2'	1		***Poorly-Graded Sand (SP)*** Dark brown to black: dry: loose; 5% medium gravel. brown grades in.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		2			
					3			
				4'	4			
			1349		5		wet: petroleum odor.	
2	Tube	75			6		dark gray grades in.	
			704		7		black grades in. gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-10

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Tank 003 Excavation		**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8	**Elevation:**	**Date Start:** 6/11/02
Surface Conditions: Sand				**Date End:** 6/11/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Carl	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly-Graded Sand (SP)*** Dark brown; slightly moist; loose; 5% medium gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
1	Tube	50	0		2		brown grades in.	
			0		3			
					4		black grades in. brown grades in.	
			0		5		wet.	
2	Tube	90	0		6			
			990		7		black grades in; petroleum odor. dark gray grades in.	
					8		End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: 02-11

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 003 Excavation		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/11/02
Surface Conditions: Asphalt				Date End: 6/11/02
Drilling Contractor: Terra Trace Environmental		Driller: Carl	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Asphalt	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Poorly Graded Sand (SP)*** Dark brown to black; dry; loose.	
							brown grades in.	
1	Tube	50	0	2'	2			
							Poorly Graded Sand with Gravel (SP) Brown; dry; loose; 70% medium sand; 30% medium to coarse gravel.	
			0		3			
					4			
				4'			***Poorly Graded Sand (SP)***	
			112		5		Brown; wet; loose; petroleum odor.	
							gray grades in.	
2	Tube	80			6			
							3" thick black peat layer; moist.	
			0.7		7		gray sand as above.	
					8			
							End of Borehole	Boring backfilled to ground surface with bentonite pellets on 6/11/02.
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-1

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 20	Elevation:	Date Start: 8/27/01
Surface Conditions: Sand, Former Bldg. H				Date End: 8/27/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	SS	60	0		1		***Poorly Graded Sand (SP)*** Brown; loose; moist; fine; <5% gravel (rounded).	Boring advanced with hollow stem augers and sampled with 2" OD by 2' long split spoons.
					2		white grades in.	
2	SS	75	0		3			
					4			
3	SS	75	0		5		black; wet grades in; possible cinders.	
					6			
4	SS	50	0		7		brown; wet grades in.	
					8			
5	SS	40	0		9			
					10			
6	SS	60	0.7		11		increase in gravel content (10-15%); gray grades in.	
					12			
7	SS	75	1.0		13			
					14			
8	SS	75	0		15			
					16			
9	SS	80	0		17			
					18			Note: Top 3' of sand directly under former Bldg. H was not continuosly sampled and is not shown on this log.
10	SS	90	0		19			
					20		End of Borehole	End of boring below final grade.

Log of Borehole: V-2

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Bldg. H Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 20	Elevation:	Date Start: 8/27/01
Surface Conditions: Sand, Former Bldg. H				Date End: 8/27/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	SS	50	0		1		***Poorly Graded Sand (SP)*** Brown; dry; loose; fine sand. white grades in; trace black cinders; moist; dense; chalky; silty.	Boring advanced with hollow stem augers and sampled with 2" OD by 2' long split spoons.
2	SS	20	0		2 3 4			Versar collected 2 Shelby tube samples. Sample from 3'-4' and from 5'-7' west of V-2
3	SS	25	0.1		5		black cinders grade in; wet: 2" thick seam. black sand grades in; wet.	
4	SS	50	2.8		6 7		brown sand grades in; wet.	
5	SS	60	0		8 9			
6	SS	75	1.7		10 11		15% gravel grades in; gray; wet. ***Well Graded Gravel with Sand (GW)*** Dark gray; loose; wet.	
7	SS	80	0		12 13		***Poorly Graded Sand (SP)*** Brown to gray; loose; wet.	
8	SS	80	0		14 15		2" lense gravel; fine.	
9	SS	90	0		16 17			
10	SS	100	0		18 19			Note: Top 3' of sand directly under former Bldg. H was not continuosly sampled and is not shown on this log.
					20		End of Borehole	End of boring below final grade.

Log of Borehole: V-3

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand with Gravel (SP) Brown; dry; loose; 20% gravel.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.5		1		grading to light gray; no gravel.	
					2		grading to black; cinders.	
1	Tube	75	0					
					3		***White Fine-Grained Lime Material*** Interbedded with black.	
			0		4			
							Poorly Graded Sand (SP) Brown.	
					5		black grades in.	
			0		6		brown grades in.	
2	Tube	70			7			
			0		8			
					9			
			0		10		dark gray grades in.	
							fine gravel grades in.	
3	Tube	100			11			
			0		12			
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-4

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2			
					3		***Poorly Graded Fine Sand (SP)*** Brown; moist; loose.	
1	Tube	60	0		4			
					5			
					6			
2	Tube	30	0		7		***White Fine-Grained Lime Material*** Wet.	
					8			
					9			
					10		***Poorly Graded Fine Sand (SP)*** Black: wet; loose.	
3	Tube	100	0		11		brown grades in.	
					12			Note: Top 3' of sand directly under former Bldg. H was not continuosly sampled.
					13		End of Borehole	End of boring below final grade.
					14			
					15			

Log of Borehole: V-6

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Dark brown; dry; trace roots.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
					2			
1	Tube	70						
			0		3			
					4			
					5			
			0		6		wet.	
							grading to dark gray.	
2	Tube	90			7		grading to black.	
			0		8		grading to gray with fine gravel 5-10%.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-7

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
			1.2		0		***Poorly Graded Gravel with Sand (GP)*** Light brown to gray; dry; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	70	0		2		***Poorly Graded Sand (SP)*** Brown; moist; loose.	
2	Tube	90	0		6		grading to black.	
			0		7		grading to dark gray.	
					9		End of Borehole	

Log of Borehole: V-8

LFR LEVINE-FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			1.1		1		***Poorly Graded Sand with Gravel (SP)*** Dark brown; dry; loose; 5% wood; 1-2% cinders.	
1	Tube	90			2		***Poorly Graded Sand (SP)*** Brown; slightly moist; loose.	
			0.6		3			
					4		grading to dark brown; wet.	
					5		grading to brownish gray.	
			0		6			
2	Tube	100			7			
			0		8		layer of fine gravel.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-9

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0.4		1		***Poorly Graded Sand with Gravel (SP)*** Brown and gray; dry. grading to white and brown and black (trace); chalky material mixed with sand.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	80			2		***White Fine-Grained Lime Material*** Wet with some gray.	
				3'	3			
			0					
				4'	4			
					5		***Poorly Graded Sand (SP)*** Brown; wet.	
			0		6			
2	Tube	100			7		grades to black.	
			0		8		grades to brownish gray.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-10

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Silty Clay (CL)*** Brown; dry; stiff.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1		***Very Fine Sand (SP)*** Black; dry; medium stiff.	
			0.7		2		***Poorly Graded Sand with Gravel (SP)*** Dark brown; dry; loose; interbedded with fine grained silty gray fibrous material; 10% gravel.	
1	Tube	80						
					3		***Poorly Graded Sand (SP)*** Black; red and green; roofing materials.	
							Poorly Graded Sand (zeolite) Black; slightly moist; perfect spheres.	
					4		***White Fine-Grained Lime Material*** Wet.	
					5			
			0		6			
2	Tube	100			7			
			0		8		***Poorly Graded Sand (SP)*** Black; wet; loose. grading to brown.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-13

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand with Gravel (SP) Brown to gray; dry; loose.	
			0.5		1		grades to redish brown.	
							grades to black.	
							White Fine-Grained Lime Material Light gray to light brown, 10% cinders.	
					2		***Poorly Graded Sand (SP)*** Brownish gray; slightly moist; loose.	
1	Tube	65		3'				
					3		***White Fine-Grained Lime Material*** Wet; interbedded with black; fine sand layers top 4".	
			0					
				4'	4			
					5		***Poorly Graded Sand (SP)*** Dark gray; wet; loose.	
			0		6		***Well Graded Fine Gravel with Sand (GW)*** Black; wet; loose; 25% sand.	
2	Tube	50			7			
			0		8		***Poorly Graded Sand (SP)*** Brownish gray; wet; loose.	
					9			
			0		10			
3	Tube	100			11			
			0		12		fine gravel grades in; dark gray; 15% gravel.	
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-14

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Poorly Graded Sand with Gravel (SP)*** Brown; dry; loose.	
			1.0		1		grading to light gray. grading to black.	
					2		***Silty Clay (CL)*** Gray; dry; medium stiff; with fibers.	
1	Tube	70						
					3		***Poorly Graded Sand (SP)*** Brownish gray; slightly moist; loose. black grades in.	
			0.9		4		***White Fine-Grained Lime Material*** White and gray.	
							Poorly Graded Sand (SP) Black layered with gray; slightly moist.	
					5		***White Fine-Grained Lime Material*** Wet.	
			0		6			
2	Tube	70			7			
			0				***Poorly Graded Sand (SP)*** Brown; wet; loose.	
					8			
					9			
			0		10			
3	Tube	60			11		black grades in. dark gray grades in.	
			0		12		increase in fine gravel grades in.	
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-17

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2			
					3		***Poorly Graded Fine Sand (SP)*** Brown; slightly moist; loose; trace (1%) silty white material.	
1	Tube	75	0		4			
					5			
			0		6			
2	Tube	30			7			
			0		8			
					9			
			0		10		***White Fine-Grained Lime Material*** Wet.	
3	Tube	80			11		***Poorly Graded Sand (SP)*** Black; wet; loose.	Note: Top 3' of sand directly under former Bldg. H was not continuosly sampled.
			0		12			
					13		brownish gray grades in. End of Borehole	End of boring below final grade.
					14			
					15			

Log of Borehole: V-18

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP) Brown; dry; loose; fine.	
			0		1		***Asphalt*** Black; dry.	
							Poorly Graded Sand (SP) Light brown; dry; loose; fine.	
1	Tube	70			2			
					3		***Silty Sand (SM)*** Black; dry; loose; possible cinders.	
			0				***Fiberous Material*** White/gray.	
					4			
					5			
							Poorly Graded Sand (SP) Black.	
			0		6		***White Fine-Grained Lime Material*** Wet.	
2	Tube	75			7			
			0		8		***Poorly Graded Sand (SP)*** Black: wet; loose.	
					9		brown grades in.	
			0		10			
3	Tube	75			11		3" thick gravel layer; fine gravel.	
							dark brownish gray sand grades in.	
			0		12			
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-19

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Gravel				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	65	0		0–3		***Poorly Graded Gravel with Sand (GP)*** Gray and light brown; slightly moist.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					3		***Cinders*** Black.	
					3–13		***Poorly Graded Sand (SP)*** Brown; slightly moist; fine sand.	
2	Tube	75	0		7–8		black grades in; wet.	
					8		brown grades in	
3	Tube	100	0		10–11		15% gravel grades in (fine).	
					13		End of Borehole	

Log of Borehole: V-20

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 8/28/01
Surface Conditions: Silt				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Very Fine Sand (SP)*** Black; slightly moist; roots.	
							Poorly Graded Sand with Gravel (SP) Black; dry; loose; 10% medium gravel.	
					2		***Cinders*** Black.	
1	Tube	75					***Poorly Graded Medium Sand (SP)*** Dark gray to black.	
			0		3		30% white fine grained lime material grades in 10% fibrous material from 3'-4'.	
					4			
					5			
			0		6		***Poorly Graded Sand with Gravel (SP)*** Black; wet.	
2	Tube	40			7		***Poorly Graded Sand (SP)*** Brownish gray; loose; wet; fine sand.	
			0		8			
					9			
			0		10			
3	Tube	100			11		***Poorly Graded Sand w/ Fine Gravel (SP)***	
			0		12		***Poorly Graded Sand (SP)*** Brownish gray; loose; wet; fine sand.	
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-21

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 16	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					0		***Poorly Graded Sand with Gravel (SP)*** Brown and gray; 30% gravel; slightly moist; loose.	
			0		1		***Poorly Graded Sand (SP)*** Brown; slightly moist; loose.	
1	Tube	75			2			
			0		3		***Well Graded Gravel with Sand (GW)*** Light gray; dry; loose; 25% sand.	
							Lean clay with Sand (CL) 20% sand; black; dry; medium stiff.	
					4		***Well Graded Sand (SW)*** Black and dark brown; coarse sand.	
			0		5			
2	Tube	50			6		***White Fine-Grained Lime Material*** Wet.	
			0		7			
					8			
			0		9			
3	Tube	100			10			
			0		11		1" layer black fibrous material 4" layer gray fine grained material	
					12		6" layer black fine-grained material, 10% small fibers. gray fine-grained lime material.	
			0		13			
4	Tube	100			14			
			0		15		***Poorly Graded Sand (SP)*** Dark gray; wet; loose.	
					16		End of Borehole	

Log of Borehole: V-22

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** H Bldg. Area - Versar	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 13 / **Elevation:**	**Date Start:** 8/28/01
Surface Conditions: Shingle Pieces			**Date End:** 8/28/01
Drilling Contractor: Rock and Soil		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Shingle Pieces*** Black; dry.	
					2		***Silty Clay (CL)*** Brown; dry; medium stiff.	
1	Tube	60			3		***Poorly Graded Sand (SP)*** Dark brown and black; interbedded with white and gray fibrous material and also white fine grained lime material.	
			0		4		***Silty Clay (CL)*** Gray; fibrous; dry; medium stiff.	
							No Recovery	
					5			
					6			
2	Tube	0			7			
					8			
					9			
					10			
3	Tube	40	0		11		***White Fine-Grained Lime Material*** Wet.	
					12		***Poorly Graded Sand (SP)*** Dark gray; wet; loose.	
					13		End of Borehole	
					14			
					15			

Log of Borehole: V-23

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand with Gravel (SP)	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Brown; dry.	
			0.8		1		grades dark brown.	
							grades to white lime material (sand grains are coated white).	
							grades to black (cinders); medium sand.	
					2		***Poorly Graded Sand (SP)***	
1	Tube	75					Brown.	
			0		3			
					4			
					5			
			0		6		wet.	
2	Tube	70			7		grades to black.	
							grades to brown.	
			0		8			
							grades to dark gray with 10-15% fine gravel.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-24

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Sand with Gravel (SP)	
					1		***Asphaltic Material*** Black; medium sand sized particles; roofing material; dry; shingle pieces.	
							Poorly Graded Sand with Gravel (SP) Black; dry; loose; 5% gravel.	
1	Tube	60	0.5		2		grading to gray (light) and further to white; dry; fine grained lime material.	
					3		***Poorly Graded Sand (SP)*** Brown.	
			0		4		1" black layer	
					5			
			0		6		grading to black layer 2-3"	
2	Tube	90			7		grading to dark gray.	
			0		8			
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-25

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand (SP) Brown; slightly moist; loose.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1			
1	Tube	60			2			
			0		3			
					4			
					5			
			0		6		grading to darker gray and 5-10% fine gravel grades in.	
2	Tube	50			7			
			0		8			
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-26

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
			0		1		***Poorly Graded Sand with Gravel (SP)*** Dark brown to reddish brown; dry; loose.	
					2		change to black with cinders; no gravel.	
1	Tube	75			3		***Poorly Graded Sand (SP)*** Brown.	
			0		4			
					5			
			0		6		wet	
2	Tube	80			7		grading gray; 5% fine gravel.	
			0		8			
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-27

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	70	0		1		***Poorly Graded Sand with Gravel (GP)*** Dark brown; dry; loose. black grades in with 15% cinders.	
					2		***Poorly Graded Sand (SP)*** Brown; dry.	
2	Tube	80	0		3			
					4			
					5			
					6		wet	
					7		grading gray; 5% fine gravel.	
					8			
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-28

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** H Bldg. Area - Versar	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 9 / **Elevation:**	**Date Start:** 8/28/01
Surface Conditions: Clay			**Date End:** 8/28/01
Drilling Contractor: Rock and Soil		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Clay (CL) Brown; dry.	
					1		***Poorly Graded Sand (SP)*** Black and gray. 20% black cinders.	
1	Tube	65	0		2			
					3			
					4			
					5		wet; brown sand with 10% gravel.	
					6			
2	Tube	75	0		7			
					8		dark gray grades in.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-29

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP) Brown; 10% gravel.	
							Asphalt Black; hard.	
					1		***Concrete*** Gray; dry; hard.	
					2		***Poorly Graded Sand (SP)*** Brown; dry; loose.	
1	Tube	70	0				gray grades in.	
					3			
					4			
					5			
							wet; brown sand with 10% gravel.	
					6			
2	Tube	80	0		7			
					8		dark gray grades in.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-30

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							Poorly Graded Sand (SP) Brown; dry.	
					1		***White Fine-Grained Lime Material*** 20% coarse sand mixed in.	
					2		***Poorly Graded Sand (SP)*** Dark brown: dry; loose.	
1	Tube	80	0		3			
					4			
					5		wet.	
					6			
2	Tube	70	0		7			
					8		dark gray grades in with 10% gravel. black grades in.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-31

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Sand				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Brown; dry.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
					1			
					2		***White Fine-Grained Lime Material*** Dry; 20% coarse sand.	
1	Tube	60	0		3		***Poorly Graded Sand (SP)*** Dark brown; dry; loose.	
					4			
					5		wet.	
					6			
2	Tube	70	0		7			
					8		dark gray grades in.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: V-32

LFR LEVINE•FRICKE	Client: Johns Manville	Project: H Bldg. Area - Versar		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 9	Elevation:	Date Start: 8/28/01
Surface Conditions: Clay				Date End: 8/28/01
Drilling Contractor: Rock and Soil		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
1	Tube	75	0	3'	1		***Silty Clay (CL)*** Brown; dry.	
					2		***Poorly Graded Sand (SP)*** Brown; dry. black grades in. very fine sand with 25% black cinders grades in.	
					3			
					4		***White Fine-Grained Lime Material*** Wet.	
				5'	5		***Poorly Graded Sand (SP)*** Gray; wet.	
2	Tube	70	0		6			
					7			
					8		very fine black sand with 5% roots grades in.	
					9		End of Borehole	
					10			
					11			
					12			
					13			
					14			
					15			

Log of Borehole: RR-SB01

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Rail Road		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Asphalt	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
			0				***Silty Sand (SM)*** Black; dry; loose; roots	
					1			
			0					
1	Tube	80		2'	2			
			0	BTEX and PNAs				
				3'	3			
			0				***Poorly Graded Sand (SP)*** Brown; moist; med. dense; trace gravel	
					4			
			0					
					5		Wet	
			0					
2	Tube	90			6			
			0					
					7		Color change to gray	Water sample collected for BTEX and PNAs from temporary well constructed with 5' PVC screen.
			0					
					8		End of Borehole	

Log of Borehole: RR-SB02

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Rail Road	**Project No:**
	Project Location: Waukegan, IL	**Total Depth:** 8 / **Elevation:**	**Date Start:** 6/21/00
Surface Conditions: Asphalt			**Date End:** 6/21/00
Drilling Contractor: Terra-Trace Environmental	**Driller:**	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
				0'			Asphalt	
			96	BTEX and PNAs			***Silty Sand (SM)*** Brown; moist; loose; roots	
							Poorly Graded Sand with Gravel(SP) Light brown to black; moist; loose; 75% sand, 25% gravel	
				1'	1		***Poorly Graded Sand (SP)*** Dark brown to black;moist; loose	
			0					
1	Tube	80			2			
			0					
					3			
			0				Color change to brown. trace gravel	
					4			
			0					
					5		Wet	
			0					
2	Tube	90			6			
			0					
					7		Color change to gray	
			0					
					8		End of Borehole	

Log of Borehole: SR-SB01

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Gravel - fill, light brown	
			>9999					
				1'	1		***Poorly graded sand (SP)*** Brown; dry; loose; strong odor	
			>9999	BTEX				
1	Tube	50			2			
				2'				
			>9999					
					3			
			>9999					
					4			
			78					
					5			
			560				***Poorly Graded Sand with Gravel (SP)*** Light brown to brown; wet; loose	
2	Tube	100			6		***Poorly Graded Sand (SP)*** Gray; wet; med. dense	
			2000					
					7			
			210				Grading to dark gray	
					8		End of Borehole	

Log of Borehole: SR-SB02

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Concrete	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Sand with gravel: fill; light brown; dry; loose; 60% sand, 40% gravel	
			>9999				***Poorly graded sand (SP)*** Dark brown; dry; loose, grading to brown	
				1'	1			
			>9999	BTEX				
1	Tube	50		2'	2			
			>9999					
					3			
			>9999					
					4			
			>9999					
					5		Wet	
			>9999					
2	Tube	80			6		Color change to gray	
			>9999					
					7		***Silty Sand (SM)*** Dark brown; wet, med. dense; rootlets	
							Poorly Graded Sand (SP) Black to dark gray; wet; med. dense	
			>9999					
					8		End of Borehole	

Log of Borehole: SR-SB03

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Sand with gravel fill	
			>9999				***Poorly Graded Sand (SP)*** Brown; dry; loose	
					1			
							Color change to black	
			>9999					
							Color change to brown	
1	Tube	60			2			
			>9999					
					3		Color change to gray	
			>9999					
					4			
			>9999					
					5			
			>9999				Wet	
2	Tube	85			6			
			>9999					
					7			
			>9999					
				No sample collected	8		End of Borehole	

Log of Borehole: SR-SB04

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			2600				***Poorly Graded Sand (SP)*** Black; moist; loose	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
					1		As above-brown; dry	
			6400	2'				
1	Tube	60			2			
				BTEX				
			>9999					
				3'	3		As above-gray to dark gray	
					4			
			>9999					
					5			
			>9999				Wet	
2	Tube	100			6			
			>9999					
					7			
			40					
					8		End of Borehole	

Log of Borehole: SR-SB05

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Gravel-fill	
			>9999				***Poorly Graded Sand (SP)*** Dark brown; dry; loose	
					1			
							Color change to brown at 1 ft.	
			>9999	2'				
1	Tube	75			2			
				BTEX				
			>9999					
				3'	3			
					4			
			>9999					
					5			
			>9999					
							Wet	
2	Tube	80			6			
			>9999					
					7		Color change to dark gray	
			2040				***Silty Sand (SM)*** Black; wet; med. dense; roots	
							Poorly Graded Sand (SP) Dark brown to gray; wet; med. dense	
					8		End of Borehole	

Log of Borehole: SR-SB06

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 12	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Gravel-fill	
			150				***Poorly Graded Sand (SP)*** Brown; dry; loose; trace gravel	
					1			
			>9999					
1	Tube	70			2			
			5600					
					3			
			2450					
					4			
			>9999					
					5		Layer of sand with black tar material from 5 to 6 ft.	
			>9999					
2	Tube	100			6			
			>9999					
					7			
			>9999					
					8		Wet	
			>9999					
					9			
			>9999					
3	Tube	100			10		Color change to dark gray	
			>9999					
					11			
			>9999	No sample collected	12			

Log of Borehole: SR-SB07

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Room		**Project No:**
	Project Location: Waukegan, IL	**Total Depth:** 12	**Elevation:**	**Date Start:** 6/21/00
Surface Conditions: Concrete				**Date End:** 6/21/00
Drilling Contractor: Terra-Trace Environmental		**Driller:**	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Gravel-fill	
							Poorly Graded Sand (SP) Light brown; dry; loose	
					1			
			372					
1	Tube	25			2			
			151					
					3			
					4			
					5			
			0					
2	Tube	90		6'	6			
			400	BTEX				
			41	7'	7			
			120					
					8		Wet	
			>9999					
					9			
			>9999					
3	Tube	90			10			
			>9999					
					11		Color change to gray	
			>9999					
					12			

Log of Borehole: SR-SB08

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Gravel fill	
			>9999				***Poorly Graded Sand with Gravel (SP)*** Brown; dry; loose; 80% sand, 20% gravel	
					1			
			>9999					
1	Tube	75			2			
			>9999					
					3			
			>9999					
					4			
			>9999					
					5			
			>9999					
2	Tube	75			6			
			>9999					
							Poorly Graded Sand (SP) Light brown grading to brown; slightly moist	
					7			
			6065					
				No sample collected	8		End of Borehole	
					9			
					10			

Log of Borehole: SR-SB09

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 12	Elevation:	Date Start: 6/21/00
Surface Conditions: Concrete				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
							Gravel-fill	
			12				***Poorly Graded Sand with Gravel (SP)*** Brown; dry; loose; 75% sand, 25% gravel	
					1			
			0					
1	Tube	60			2			
			0					
					3			
			0					
					4			
			0					
					5			
			0					
2	Tube	75			6			
			0					
					7			
			0					
					8		Wet	
			0					
					9			
			0					
3	Tube	80			10			
			0				***Poorly Graded Sand (SP)*** Brown; wet; loose; trace gravel	
					11			
			0	No sample collected				
					12		End of Borehole	

Log of Borehole: SR-SB10

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		***Poorly Graded Sand (SP)*** Black; moist; loose; grading to reddish brown	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
			0					
					1		Color change to brown	
			0					
1	Tube	60			2			
			0					
					3			
			0					
					4			
			0					
					5		Wet	
			0					
2	Tube	90			6			
			0					
					7		Color change to gray	
			0				Black and brown fibrous material at 7.5 ft.	
				No sample collected	8		End of Borehole	
					9			
					10			

Log of Borehole: SR-SB11

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded Sand with Gravel (SP)*** Black; moist; loose; 80% sand, 20% gravel; trace roots	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
					1		***Poorly Graded Sand (SP)*** Brown; moist; loose	
			0					
1	Tube	90			2			
			0					
					3			
			0					
					4			
			0					
					5		Wet	
			0					
2	Tube	100			6			
			0					
					7		Color change to gray	
			0				Black and brown fibrous material at 7.5 ft.	
				No sample collected	8		End of Borehole	

Log of Borehole: SR-SB12

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Room		**Project No:**
	Project Location: Waukegan, IL	**Total Depth:** 8	**Elevation:**	**Date Start:** 6/21/00
Surface Conditions: Topsoil				**Date End:** 6/21/00
Drilling Contractor: Terra-Trace Environmental		**Driller:**	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
					0		***Poorly Graded Sand with Gravel (SP)*** Brown sand, light gray gravel; moist; loose; 75% sand, 25% gravel	
			0					
					1			
			0				***Poorly Graded Sand (SP)*** Brown; moist; loose	
1	Tube	75			2			
			0					
					3			
			0					
					4			
			0					
					5		Wet	
			0					
2	Tube	90			6			
			0					
					7		*Color change to gray; trace gravel*	
			0					
				No sample collected	8		End of Borehole	

Log of Borehole: SR-SB13

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Room		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Poorly Graded Sand with Gravel (SP) Black; moist; loose; trace wood fragments; roots	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
			0					
					1			
			0				*Color change to brown*	
1	Tube	65			2			
			0					
					3			
			0					
					4			
			0					
					5		Wet	
			0					
2	Tube	100			6		Color change to gray	
			0					
					7			
			0					
				No sample collected	8		End of Borehole	

Log of Borehole: SR-SB14

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Room	**Project No:**
	Project Location: Waukegan, IL	**Total Depth:** 8 / **Elevation:**	**Date Start:** 6/21/00
Surface Conditions: Concrete			**Date End:** 6/21/00
Drilling Contractor: Terra-Trace Environmental	**Driller:**	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Concrete	
			0				***Poorly Graded Sand with Gravel (SP)*** Light brown; dry; loose	
					1		As above. no gravel	
			0					
1	Tube	60			2			
			0					
					3			
			0					
					4		Moist	
			0					
					5			
			0					
2	Tube	75			6			
			0					
					7		Color change to gray	
			0					
					8			
			0				Wet	
					9			
			0					
3	Tube	100			10			
			0					
					11			
			0					
				No sample collected	12		End of Borehole	

Log of Borehole: T-039-SB01

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Coarse gravel fill	
							Poorly Graded Sand (SP) Brown; dry; loose; med. to fine grained	
					1			
1	Tube	75	2655	2'	2			
				BTEX				
			1286	3'	3			
					4			
			2616					
					5			
			>9999					
2	Tube	90			6		Wet	
			>9999					
					7			
			>9999					
					8		End of Borehole	

Log of Borehole: T-039-SB02

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Tank 039 Dispenser Line	**Project No:**
	Project Location: Waukegan, IL	**Total Depth:** 8 / **Elevation:**	**Date Start:** 6/21/00
Surface Conditions: Asphalt			**Date End:** 6/21/00
Drilling Contractor: Terra-Trace Environmental	**Driller:**	**Geologist/Engineer:** W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Coarse gravel fill; light brown; dry; loose	
							Poorly Graded Sand (SP) Brown; dry; loose; med. to fine grained	
			923		1			
1	Tube	75	1180		2			
			614		3			
					4			
			6311	5'	5			
				BTEX				
2	Tube	90	2800	6'	6		Wet, visual staining, odor	
			750		7			
			897		8			
							End of Borehole	

Log of Borehole: T-039-SB03

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Coarse gravel fill; light brown; dry; loose	
							Poorly Graded Sand (SP) Brown; dry; loose; med. to fine grained	
			2257		1			
1	Tube	50	1173		2			
			5823		3			
					4			
			7953	5'	5			
				BTEX				
2	Tube	75	2100	6'	6		Wet, visual staining, odor	
			>999		7			
			>999		8			
							End of Borehole	

Log of Borehole: T-039-SB04

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Coarse sand and gravel fill; light brown; dry; loose	
			295		1		***Poorly Graded Sand (SP)*** Brown; dry; loose; med. to fine grained	
1	Tube	50	4791		2			
			2289		3			
			602		4			
			>9999					
				5'	5			
			>9999	BTEX				
2	Tube	100		6'	6		Wet, visual stain, odor	
			>9999					
					7			
			1620					
					8		End of Borehole	

Log of Borehole: T-039-SB05

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
			0				Coarse sand and gravel fill; light brown; dry; loose	
							Poorly Graded Sand (SP) Brown; dry; loose; med. to fine grained	
					1			
			260					
1	Tube	40			2			
					3			
					4			
			1398					
				5'	5			
				BTEX				
2	Tube	75	218	6'	6		Wet, visual staining, odor; color change to gray	
			66		7		Color change to black, dark brown	
			>9999					
					8		End of Borehole	

Log of Borehole: T-039-SB06

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
							Gravel fill	
			0				***Poorly Graded Sand (SP)*** Black; dry; loose	
					1		Color change to brown, trace gravel	
			0					
1	Tube	60			2			
			0					
				3'	3			
			0	BTEX				
				4'	4			
			0				Color change to black	
					5		Color change to gray	
			0					
2	Tube	100			6		Wet	
			720				Color change to brown and dark brown	
					7			
			609					
					8		End of Borehole	

Log of Borehole: T-039-SB07

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
							Asphalt	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
			0				Sand and gravel fill, dark brown; dry; loose	
					1		***Poorly Graded Sand (SP)*** Brown; dry; loose; trace gravel	
			0					
1	Tube	60			2			
			0					
				3'	3			
			0	BTEX				
				4'	4			
			0		5		Wet	
2	Tube	100	618		6		***Silty Sand (SM)*** Gray; wet; medium dense	
							Poorly Graded Sand (SP) Black; wet; med. dense	
			778		7		Color change to brown at 7 feet	
			520				***Poorly Graded Sand with Gravel (SP)*** Black; 80% sand, 20% gravel; odor	
					8		End of Borehole	

Log of Borehole: T-039-SB08

LFR LEVINE·FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
							Asphalt	
			0				Coarse sand and gravel fill: dark brown to black; dry; loose	
					1		***Poorly Graded Sand (SP)*** Brown; dry; loose; trace gravel	
			0					
1	Tube	50			2			
			0					
				3'	3			
			0	BTEX and PNAs				
				4'	4			
			0					
					5			
			32				Wet	
2	Tube	100			6		***Silty Sand (SM)*** Gray; wet; medium dense	
			814				***Poorly Graded Sand (SP)*** Brown to black grading to gray; wet; med. dense	
					7			
			634					
							Poorly Graded Sand with Gravel (SP) Black; 80% sand, 20% gravel	
					8		End of Borehole	

Log of Borehole: T-039-SB09

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Tank 039 Dispenser Line		Project No:
	Project Location: Waukegan, IL	Total Depth: 8	Elevation:	Date Start: 6/21/00
Surface Conditions: Asphalt				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
							Ground Surface	
					0		Asphalt	Boring advanced using direct push soil probe using a 2" OD by 4' long macrotube sampler.
			90				Sand and gravel fill, light brown; dry; loose	
							Poorly Graded Sand (SP) Brown: dry; loose	
					1			
			205					
1	Tube	60			2			
			445					
					3			
					4			
			147					
					5			
			57				Wet	
2	Tube	95			6			
			0				Color change to gray	
					7			
							Color change to black	
			71				color change to brown	
				No sample collected	8		End of Borehole	

APPENDIX F

A.P.E.C. LIMITED
5081 Wynn Rd
Kalamazoo, Mi. 49001
(616) 343-0000

UMW-01

Well one

DRILLERS LOG

Client : Manville Sales
Project : tank area 2, 21, 22
Location : WAUKEGAN, IL
Date : 1-3-90

Drilling Co. : Stern's
Crew Leader : ROGER Christenson
Drilling Method : Hollow Stem AUGER
Sampling Method : SPLIT SPOON
Depth of Ground water : 8½ ft

Casing Type : Galvanized Steel
Casing Length : 8'2"
Casing above ground : 2½'
Screen Type : Stainless steel
Screen Length : 5 ft
Bottom of Screen : 11 ft
Gravel Pack : 11-4'
Bentonite : 4-1'
Cement : 1-0'

REMARKS

Samples collected from backfilled areas at 2' intervals. The well was covered with a 5"x4" procasing standing 2½ft. above the ground.

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		Fine Sand Grey in color
2-4	2		Fine Sand
4-6	3		Fine sand grey in color
6-8	4		grey in color poorly sorted sand fine grains dominant

UMW-01A

CCJM

Environmental Engineers & Scientists
3310 Eagle Park Dr. NE, Suite 101
Grand Rapids, MI 49505
(616) 940-2000 FAX (616) 940-1603

Job No. N180-200

LOG OF TEST BORING NO. UMW-1a

Sheet: 1 of 1
Project: Schuller
Location: Waukegan, Illinois

Date Completed: 05/07/96
Hydrogeologist: Brett W. Coulter
Driller & Rig Type: R. Christianson/CME 750
Boring Method: 4.25" ID Hollow Stem

GROUNDWATER:

Encountered @: 4.5'

MONITOR WELL DATA:

Pipe/Type: 2"-PVC
Length: 3.2'
Above Ground: Flushmount
Cap: J-Plug
Screen/Type: 2"/PVC
Size: 5' length
Slot: 10 slot
Set @ 4 to 9
Sand: 3 to 12

Bentonite Seal: 2 to 3
Grout/Type: Cement 0 to 2

Protective Casing: Flushmount
Protective Casing: Steamed

Remarks

Sand pack - #00 well pack (med. sand)

SOIL DESCRIPTION LEGEND:

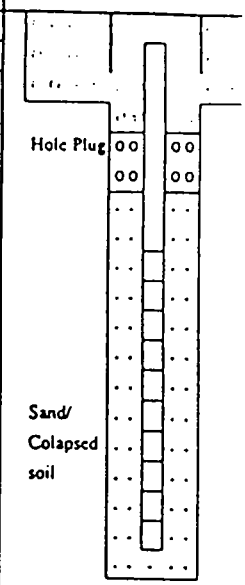
- BC - Blow Count/Blows per 6" w/140 lb. hammer x 30" drop
- SS - 2" Split Spoon Sampler
- OVM - Organic Vapor Meter
- BL - Brass Liner Sample
- S.M. - Sampling Method
- SNR - Sample Not Recovered
- ▼ - Water Table at Depth Encountered During Drilling
- ▬ - Split-Spoon Sampling Intervals

WELL CONSTRUCTION LEGEND:

- O.O. - Concrete
- O O - Hole Plug
- x . - Bentonite Slurry
- . . . . - Sand Pack / Natural Collapse

SM	REC	BC	OVM/HS	Depth (feet)	Soil Description
					Asphalt (0"-2")
					Concrete (2"-9")
				2	Fill - Tan/Brown silty SAND
SS	12"	4	0		
		4		4	
		4			
		4			
BL	NA	2			
		2		6	Grey fine silty SAND, Wet
		5			
		6			
				8	
				10	
SS	14"	4	0		
		5			
		7			
		7		12	
				14	
SS	16"	11	0		
		16		16	
		18			
		21			
				18	
				20	
SS	13"	14	0		
		14			
		28			
		36		22	
				24	
SS	16"	11	0		
		16		26	
		18			
		21			
				28	Grey clayey SILT to SILT with trace Gravel
SS	22"	14	0		Firm, Dry
		39			
		69			
		100		30	
					End of Boring @ 30'

Well Construction



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UMW-02

Well two

DRILLERS LOG

Client : Manville Sales
Project : tank area 2.21.22
Location : Waukegan, IL
Date : 1-3-90

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 7.7'

Casing Type : galvenized Steel
Casing Length : 8ft
Casing above ground : 2.5'
Screen Type : Stainless Steel
Screen Length : 5ft
Bottom of Screen : 10½ft
Gravel Pack : 10½-5'
Bentonite : 5-1'
Cement : 1'-0

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		coarse grey sand
2-4	2		coarse grey sand
4-6	3		poorly sorted sand
6-8	4		Saturated Peat Saturated fine sand

REMARKS

Peat found at the bottom of the split spoon interesting!
Sampled every 2'.
Procasing covering well

UMW-2A

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Job No. N180-200

LOG OF TEST BORING NO. MW-2A

Sheet: 1 of 1
Project: Schuller
Location: Waukegan, Illinois

Date Completed: 05/07/96
Hydrogeologist: Brett W. Coulter
Driller & Rig Type: R. Christianson/CME 750
Boring Method: 4.25" ID Hollow Stem

GROUNDWATER:

Encountered @: Approx. 4'

MONITOR WELL DATA:

Pipe/Type: 2"-PVC
Length: 3.2'
Above Ground: Flushmount
Cap: J-Plug
Screen/Type: 2"/PVC
Size: 5' length
Slot: 10 slot
Set @ 3.5 to 8.5
Sand: 2.0 to 8.5

Bentonite Seal: 1.5 to 2
Grout/Type: Cement 0.0 to 1.5

Protective Casing: Flushmount
Protective Casing: Steamed

Remarks

Sand pack - #00 well pack (med. sand)

SM	REC	BC	OVM/HS	Depth (feet)	Soil Description	Well Construction
					Asphalt (0"-3")	
				2	Fill - Tan/Brown fine silty SAND with trace Gravel	Hole Plug
SS	12"	2	0			
		1		4	Grey fine silty SAND, wet	
		1				
		1				
BL	N/A	1				
		2		6		
		3				
		4				
SS	14"	5	0			Sand/Collapsed soil
		7		8		
		10				
		11				
				10	End of Boring @ 10'	
				12		
				14		
				16		
				18		
				20		
				22		
				24		
				26		
				28		
				30		

SOIL DESCRIPTION LEGEND:

BC - Blow Count/Blows per 6" w/140 lb. hammer x 30" drop
SS - 2" Split Spoon Sampler
OVM - Organic Vapor Meter
BL - Brass Liner Sample
S.M. - Sampling Method
SNR - Sample Not Recovered
▼ - Water Table at Depth Encountered During Drilling
▒ - Split-Spoon Sampling Intervals

WELL CONSTRUCTION LEGEND:

O.O. - Concrete
O O - Hole Plug
x . - Bentonite Slurry
. . . . - Sand Pack / Natural Collapse

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UMW-03

Well 3

DRILLERS LOG

Client : Manville Sales
Project : Tankaea 2,21,22
Location : Waukegan IL
Date : 1-3-90

Drilling Co. : Sterns
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground Water : 7' 11"

Casing Type : galvenized Steel
Casing Length : 8'
Casing above ground : 2½'
Screen Type : Stainless Steel
Screen Length : 5 ft
Bottom of Screen : 10½
Gravel Pack : 10½ - 4½
Bentonite : 4½ - 1
Cement : 1-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		poorly sorted sand
2-4	2		poorly sorted sand
4-6	3		Fine-coarse sand grey
6-8	4		Fine sand Peat
8-10	5		Saturated coarse sand

UMW-03A

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Job No. N180-200

LOG OF TEST BORING NO. MW-3A

Sheet: 1 of 1
Project: Schuller
Location: Waukegan, Illinois

Date Completed: 05/07/96
Hydrogeologist: Brett W. Coulter
Driller & Rig Type: R. Christianson/CME 750
Boring Method: 4.25" ID Hollow Stem

GROUNDWATER:

Encountered @: Approx. 4'

MONITOR WELL DATA:

Pipe/Type: PVC
Length: 3.25'
Above Ground: Flushmount
Cap:
Screen/Type: 25/PVC
Size: 2"
Slot: 10 slot
Set @ 3.5 to 8.5
Sand: 2.0 to 8.5

Bentonite Seal: 1.5 to 2
Grout/Type: Cement 0.0 to 1.5

Protective Casing: Flushmount
Protective Casing: Steamed

Remarks

Sand pack - #00 well pack (med. sand)

SOIL DESCRIPTION LEGEND:

BC - Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
OVM - Organic Vapor Meter
VAS - Vertical Aquifer Sample
S.M. - Sampling Method
SNR - Sample Not Recovered
-Water Table at Depth Encountered During Drilling
- Split-Spoon Sampling Intervals

WELL CONSTRUCTION LEGEND:

O.O. - Concrete
OO - Hole Plug
: . - Bentonite Slurry
. . . . - Sand Pack / Natural Collapse

SM	REC	BC	OVM/HS	Depth (feet)	Soil Description	Well Construction
					Asphalt	
				2	Fill - Tan/Brown silty SAND with some Gravel	Sand; Hole Plug
SS	10"	3	0			
		3		4	Fill - Grey silty CLAY with Gravel	
		3				
		3				
				6	Grey fine silty SAND with trace Gravel	
				8		Sand/Collapsed soil
SS	14"	4	0			
		7				
		9				
		11		10		
				12		
SS	16"	3	0			
		7		14		
		12				
		16				
					End of Boring @ 15'	
				16		
				18		
				20		
				22		
				24		
				26		
				28		
				30		

UMW-04

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Well 4

DRILLERS LOG

Client : Manville Sales
Project : South tank Farm
Location : WAUKEGAN, IL
Date : 1-3-90

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 6½'

Casing Type : galvenized Steel
Casing Length : 7½'
Casing above ground : 2½'
Screen Type : Stainless Steel
Screen Length : 5ft
Bottom of Screen : 10'
Gravel Pack : 10-4
Bentonite : 4-1
Cement : 1-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		poorly sorted sand
2-4	2		Fine - Coarse sand
4-6	3		Fine Sand partially wet
6-8	4		Saturated fine sand
8-10			

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Well 5

DRILLERS LOG

Client : Manville Sales
Project : South tank FARM
Location : Waukegan, IL
Date : 1-3-90

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 7ft

Casing Type : galvenized Steel
Casing Length : 8'
Casing above ground : 2½'
Screen Type : Stainless Steel
Screen Length : 5'
Bottom of Screen : 10½'
Gravel Pack : 10½'-4'
Bentonite : 4'-1'
Cement : 1'-0

REMARKS

Sampling started after the 6" of concrete.

Depth in feet	Sampling number	Blow count	Soil Identification and description
6"			Concrete
0-2	1		Coarse sand
2-4	2		Fine sand
4-6	3		Very fine sand partly saturated
6-8	4		Fine sand Saturated

UMW-06

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Well 6

DRILLERS LOG

Client : MANville Sales
Project : South Tank Farm
Location : WAUKEGAN, IL
Date : 1-4-90

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow stem Auger
Sampling Method : Split Spoon
Depth of Ground Water : 6' 10"

Casing Type : galvenized Steel
Casing Length : 7½
Casing above ground : 2½
Screen Type : Stainless steel
Screen Length : 5'
Bottom of Screen : 10'
Gravel Pack : 10'-4'
Bentonite : 4'-1'
Cement : 1'-0

REMARKS

Drilled in a backfilled area, Fine sand

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2			
2-4			
4-6			
6-8			Coarse Saturated sand

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Well 7

DRILLERS LOG

Client : Manville Sales
Project : South Tank Farm
Location : Waukegan, IL
Date : 1-4-96

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 6'3"

Casing Type : galvenized Steel
Casing Length : 6.5'
Casing above ground : 2½'
Screen Type : Stainless Steel
Screen Length : 5'
Bottom of Screen : 9'
Gravel Pack : 9'-3'
Bentonite : 3'-6"
Cement : 6"-0

REMARKS

Drilled through 4" of Concrete

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-4"			Concrete
4"-2'	1		Sandy gravel
2-4	2		fine sand
4-6	3		poorly sorted sand

UMW-08

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Well 8

DRILLERS LOG

Client : MAnville Sales
Project : TAnk area 3
Location : WAukegan, IL
Date : 1-4-90

Drilling Co. : Stein's
Crew Leader : Roger christensen
Drilling Method : Hollow stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 5'

Casing Type : galvenized steel
Casing Length : 5'
Casing above ground : 2½'
Screen Type : Stainless steel
Screen Length : 5'
Bottom of Screen : 7½'
Gravel Pack : 7½'-2'
Bentonite : 2'-6"
Cement : 6"-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		fine sand yellow color
2-4	2		poorly sorted sand
4-6			Fine sand saturated

umw-09

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Well 9

DRILLERS LOG

Client : Manville Sales
Project : Tankawa 3
Location : Waukegan IL
Date : 1-4-90

Drilling Co. : Stern's
Crew Leader : Roger Ohrstunson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 7' 3"

Casing Type : GALVENIZED Steel
Casing Length : 8'
Casing above ground : 2½'
Screen Type : stainless steel
Screen Length : 5'
Bottom of Screen : 10½'
Gravel Pack : 10½ - 4
Bentonite : 4-1
Cement : 1-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		Poorly sorted sand
2-4	2		Poorly sorted sand
4-6	3		Peat Fine sand
6-8	4		Coarse sand

umw-10

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Well 10

DRILLERS LOG

Client : Manville Sales
Project : Tank area 3
Location : Waukegan IL
Date : 1-4-90

Drilling Co. : Stern's
Crew Leader : Roger Christensen
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground Water : 6½'

Casing Type : galvenized steel
Casing Length : 7½'
Casing above ground : 2½'
Screen Type : Stainless steel
Screen Length : 5'
Bottom of Screen : 10'
Gravel Pack : 9-3'
Bentonite : ~~[illegible]~~ 3'-6"
Cement : 6"-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-2	1		Poorly Sorted Sand
2-4	2		Fine Sand
4-6	3		Fine Sand
6-8	4		Fine Sand Saturated

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Well 11

DRILLERS LOG

Client : MANville Sales
Project : tankases 5,6
Location : Waukegan, IL
Date : 1-5-90

Drilling Co. : Stein's
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground Water : 6' 4"

Casing Type : galvenized Steel
Casing Length : 6½'
Casing above Ground : 2½'
Screen Type : Stainless Steel
Screen Length : 5
Bottom of Screen : 9'
Gravel Pack : 9-3
Bentonite : 3-6"
Cement : 6"-0

REMARKS

Depth in feet	Sampling number	Blow count	Soil Identification and description
0-8"			Concrete
8"-2'	1		fine sand
2'-4'	2		Fine sand
4'-6'	3		Fine sand
6'-9'	4		poorly sorted saturated

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UMW-12

Well 12

DRILLERS LOG

Client : Manville Sales
Project : Tankage S.b
Location : Waukegan, IL
Date : 1-5-90

Drilling Co. : Stern's
Crew Leader : Roger Christenson
Drilling Method : Hollow Stem Auger
Sampling Method : Split Spoon
Depth of Ground water : 6½'

Casing Type : Galvenized Steel
Casing Length : 4'
Casing above Ground : 0
Screen Type : Stainless Steel
Screen Length : 5'
Bottom of Screen : 9'
Gravel Pack : 9-3'
Bentonite : 3-1
Cement : 1-0

REMARKS

Sampling Started four feet below surface. The auger went through concrete and abandoned pipe.
Well 12 was flush mounted

Depth in feet	Sampling number	Blow count	Soil Identification and description
4-6			Sandy gravel
6-8			Gravel Saturated

UMW-13

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Job No. 651-051-00001

LOG OF TEST BORING NO. 13

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 3.5' - 4'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
The screen was set just below the water table to allow for a proper seal to be placed above the screen. The natural soils were used to backfill the boring around the screen area.

MONITORING WELL DATA
Monitor well data presented on Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
			0		Black-brown fine to coarse sand with fine gravel
			0	3.5 - 4	▽
				5	
			0		
				9.5	End of Boring
				10	

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Job No. 651-051-00001

WELL NUMBER 13

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 3.5-4'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 5.5'
Above Ground 2.5'
Cap Plug

Screen/Type Stainless steel
Size 5'
Slot 10
Set @ 4' to 9.5'
Backfilled Natural collapse 3' to 9.5'

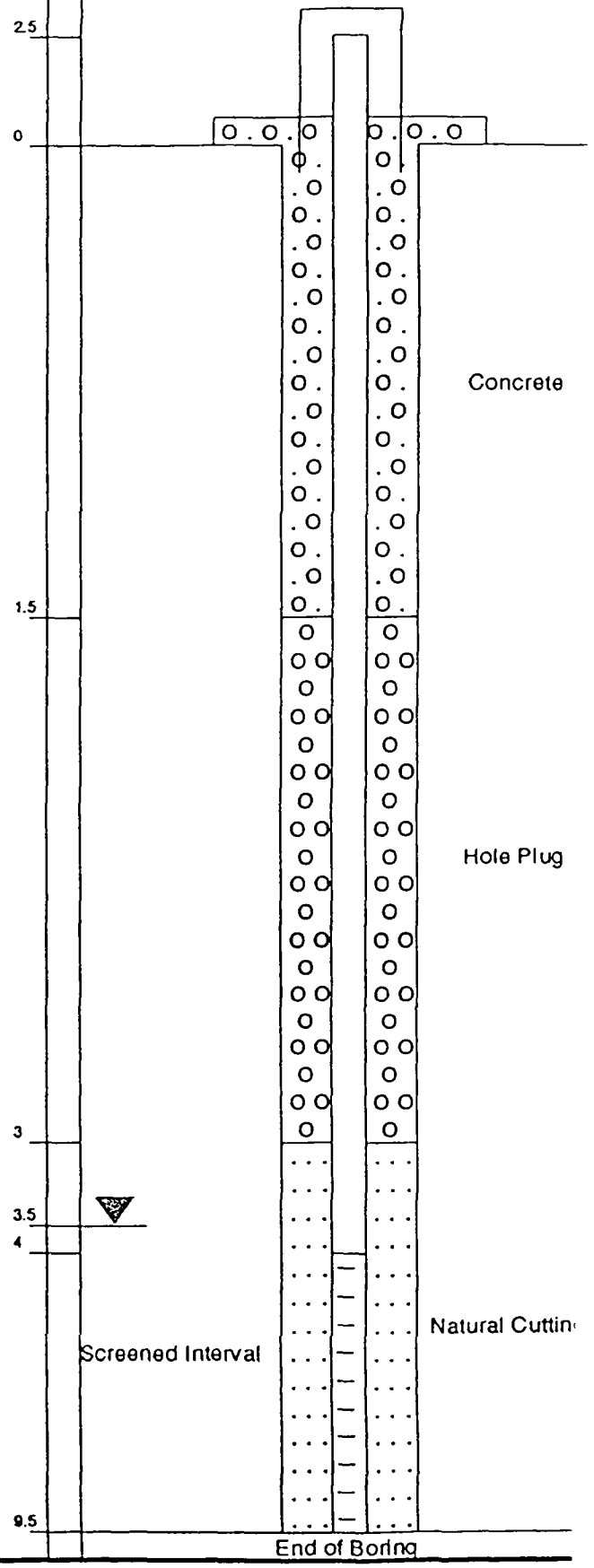
Bentonite Seal Hole plug 1.5' to 3'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 15 gallons were bailed from the well during development

Remarks Oily sheen on water and a strong organic odor were observed during development of the well. The screen was set just below the water table to allow for a proper seal to be placed above the screen.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 14

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-30-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER

Encountered @ 6'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS

The natural cuttings were used to backfill the boring around the screen and above the hole plug. The remaining cuttings were drummed on site.

MONITORING WELL DATA

Monitor well data presented on Well Construction Diagram

LEGEND:

Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
			0		Asphalt
					Brown gravel sub base
					Light brown fine to medium sand
			0		
			0		
			0		
				5	
			0		
				6	
			0		
					? ? ? ? ?
					Light gray to black molted fine to medium grained sar
			0		
			0		
				9.5	
					End of Boring
				10	

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Job No. 651-051-00001

WELL NUMBER 14

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-30-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 6'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 3' 11"
Above Ground 0
Cap Plug

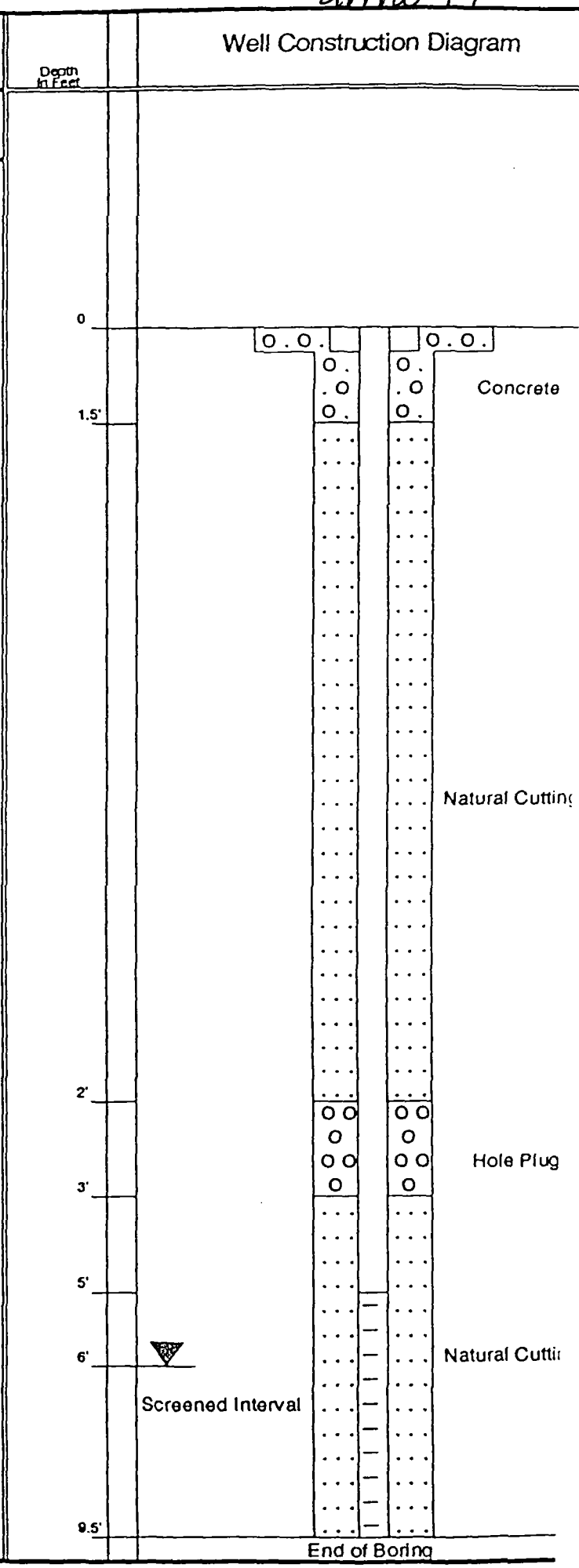
Screen/Type Stainless steel
Size 5'
Slot 10
Set @ 5' to 9.5'
Backfilled Natural Collapse 3' to 9.5'
and 1.5' to 2'
Bentonite Seal Hole plug 2' to 3'
Grout/Type None used

Protective Casing 6" Flushmount Manhole
Materials Cleaned Steamed

Development 7 gallons were bailed from the well during development.

Remarks This well is located in the southwest part of the southwest parking lot. Below the gravel base a light brown sand was encountered and below that a light gray sand was encountered. No organic odor or oily sheen were observed while developing the well.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 15

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Brian Abbott
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 6.0'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS

MONITORING WELL DATA
Monitor well data presented on
Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
			0		
				5	
			0		
				10	End of Boring

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Job No. 651-051-00001

WELL NUMBER 15

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Brian Abbott
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 6.0'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 6.9'
Above Ground 1.9'
Cap Plug

Screen/Type Stainless steel
Size 5'
Slot 10
Set @ 5' to 10'
Backfilled Natural collapse 3' to 10'

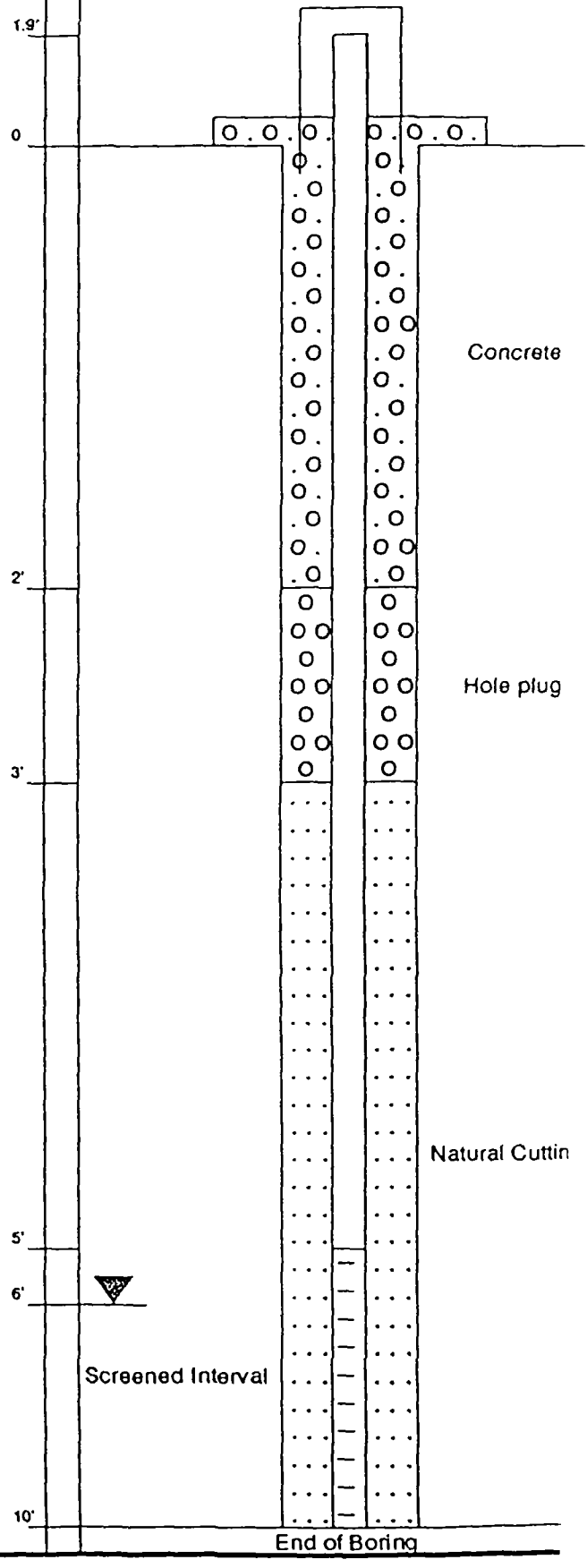
Bentonite Seal Hole plug 2' to 3'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 7 gallons were bailed from the well during development

Remarks

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 16

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-28-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
The soil at the top was a black cinder material. below that was a sand and it was use to backfill the boring around the screen area. The rest of the cuttings were drummed on site.

MONITORING WELL DATA
Monitor well data presented on
Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
			0		Cinder fill material
			0		Light gray-green fine to medium sand
			0		
			0	5	
			0		
			0		
				10	End of Boring

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Job No. 651-051-00001

WELL NUMBER 16

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-28-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 5.25'
Above Ground 2'
Cap Screw Plug

Screen/Type Stainless steel
Size 5'
Slot 10
Set @ 4.5' to 9.5'
Backfilled Natural collapse 3' to 9.5'

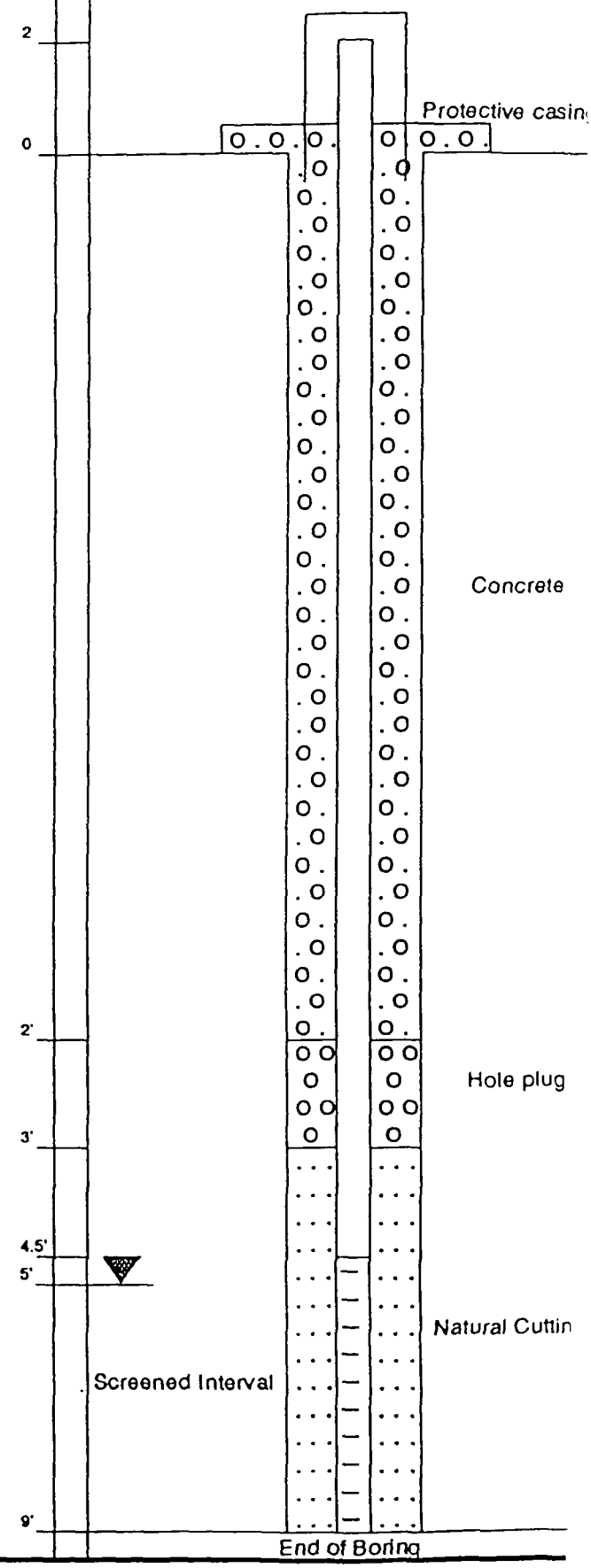
Bentonite Seal Hole plug 2' to 3'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 10 gallons were bailed from the well during development.

Remarks The material near the surface was black cinder and just below that was a gray sand. The development water did not have an organic odor or an oily sheen.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 17

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 5.5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
Natural cuttings were used to backfill the boring around the screen.

MONITORING WELL DATA
Monitor well data presented on Well Construction Diagram

LEGEND:
Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Roof tabs
			0		Brownish gray fine to medium sand with some grav
				5	
				5.5	▼
			0		
					End of Boring
				10	

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Job No. 651-051-00001

WELL NUMBER 17

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 5.5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 6'
Above Ground 2.5'
Cap Plug

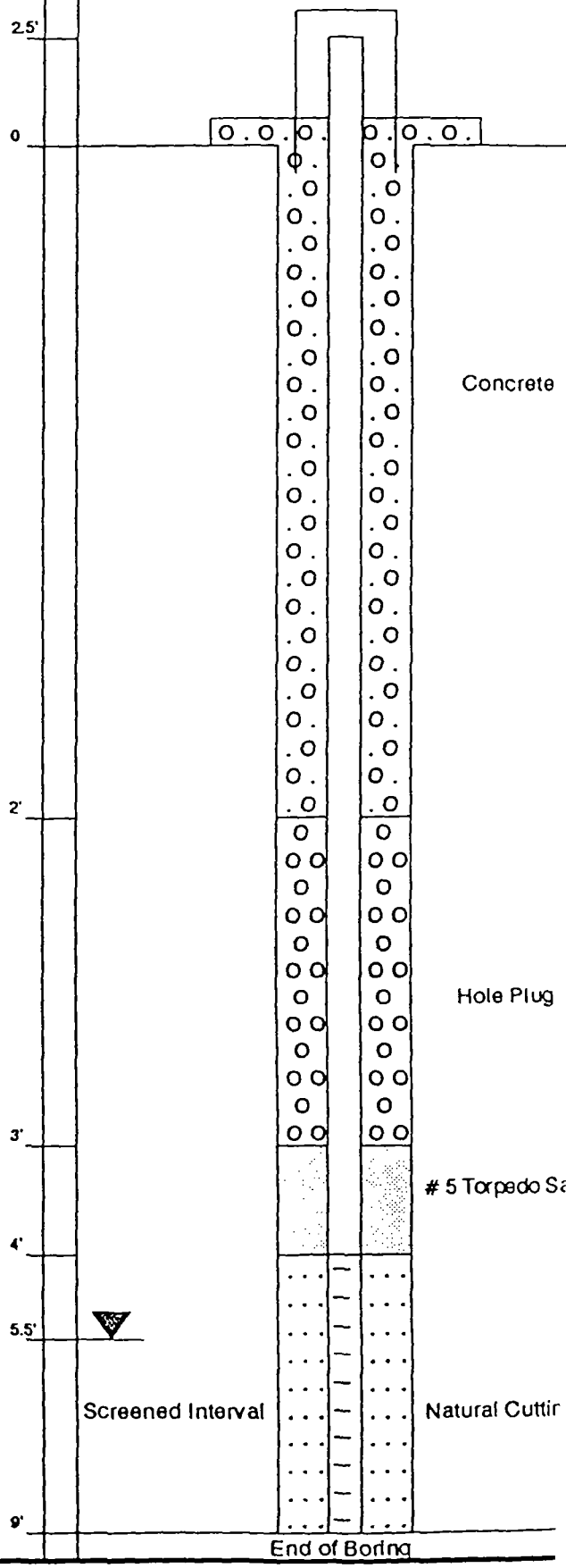
Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 4' to 9'
Backfilled Natural cuttings 4' to 9'
5 Torpedo sand 3' to 4'
Bentonite Seal Hole plug 2' to 3'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 15 gallons were bailed from the well during development

Remarks The ground at this location was covered with roof tab material. The soil below was a gray sand. No organic odor or oily sheen were observed during development of the well.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 18

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-28-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 10.5' - 11'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
Three attempts were made at this location. The first two had auger refusal at 5' and 7', respectively. The second and third attempts were made 5' to the south and 20' to the west, respectively. Pipes or rocks were the reason for the auger refusal. During the drilling of the first attempt a pin sheared in the drive mechanism. This lead to a small amount of down time to repair the rig. Below the road base was a white, gray and black sludge material and this sludge may contain asbestos and was drummed on site.

MONITORING WELL DATA
Monitor well data presented on
Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	PID	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Limestone and dolomite road base
			0		Light brown fine to medium gained sand fill materi
				5	Brown to black gravel and fine to medium sand Old road base
			0		White, gray and black extremely soft material,
				10	? ? ? ? ? ?
			0		Grayish green fine to medium grained sand.
				15	End of Boring

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Job No. 651-051-00001

WELL NUMBER 18

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-28-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 10.5' - 11'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 9'
Above Ground 0
Cap Plug

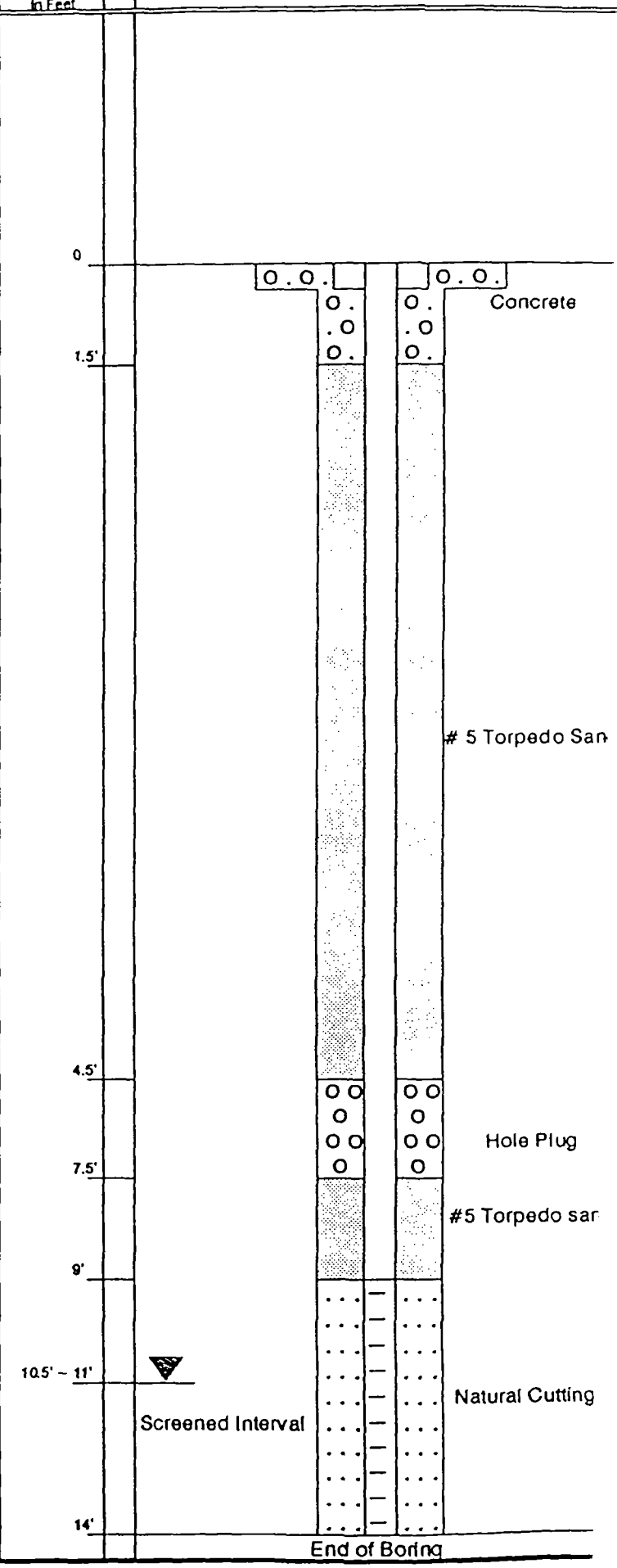
Screen/Type Stainless steel
Size 5'
Slot 10
Set @ 9' to 14'
Backfilled Natural Collapse 9' to 14'
5 Torpedo Sand 7.5' to 9', and 1.5' to 4.5'
Bentonite Seal Hole plug 4.5' to 7.5'
Grout/Type None used

Protective Casing 6" Flushmount Manhole
Materials Cleaned Steamed

Development 10 gallons were bailed from the well during development.

Remarks Three attempts were made at this location. The first two had auger refusal at 5' and 7' respectively. The second and third attempts were made 5' to the south and 20' to the west, respectively. Pipes or rocks were the reason for the auger refusal. During the drilling of the first attempt the augers sheared a pin in the drive mechanism. This lead to a small amount of down time to repair the rig. The material that we were drilling through was a limestone road base, a gray, black, and white material, a gray fibrous material, and a black sand. The development water was black at the start of development and it became a light gray when the development was completed. The water had an oily sheen and organic odor.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 19

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ ~ 5.75'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
The material below the gravel was a gray, black and white sludge and below that was a gray sludge, both of which may contain asbestos. The materials were drummed on site.

MONITORING WELL DATA
Monitor well data presented on Well Construction Diagram

LEGEND:
Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	BEC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Asphalt
					Gravel bed
			0		Gray, black and white material
				5	? ? ? ? ?
				5.75	Gray Fibrous sludge
			0		? ? ? ? ?
					Black fine to medium grained sand
			0		
				9.5	End of Boring
				10	

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Job No. 651-051-00001

WELL NUMBER 19

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ ~ 5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 6'
Above Ground 2'
Cap Plug

Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 4' to 9'
Backfilled #5 Torpedo sand 3' to 9'
#5 Torpedo sand 1' to 2'

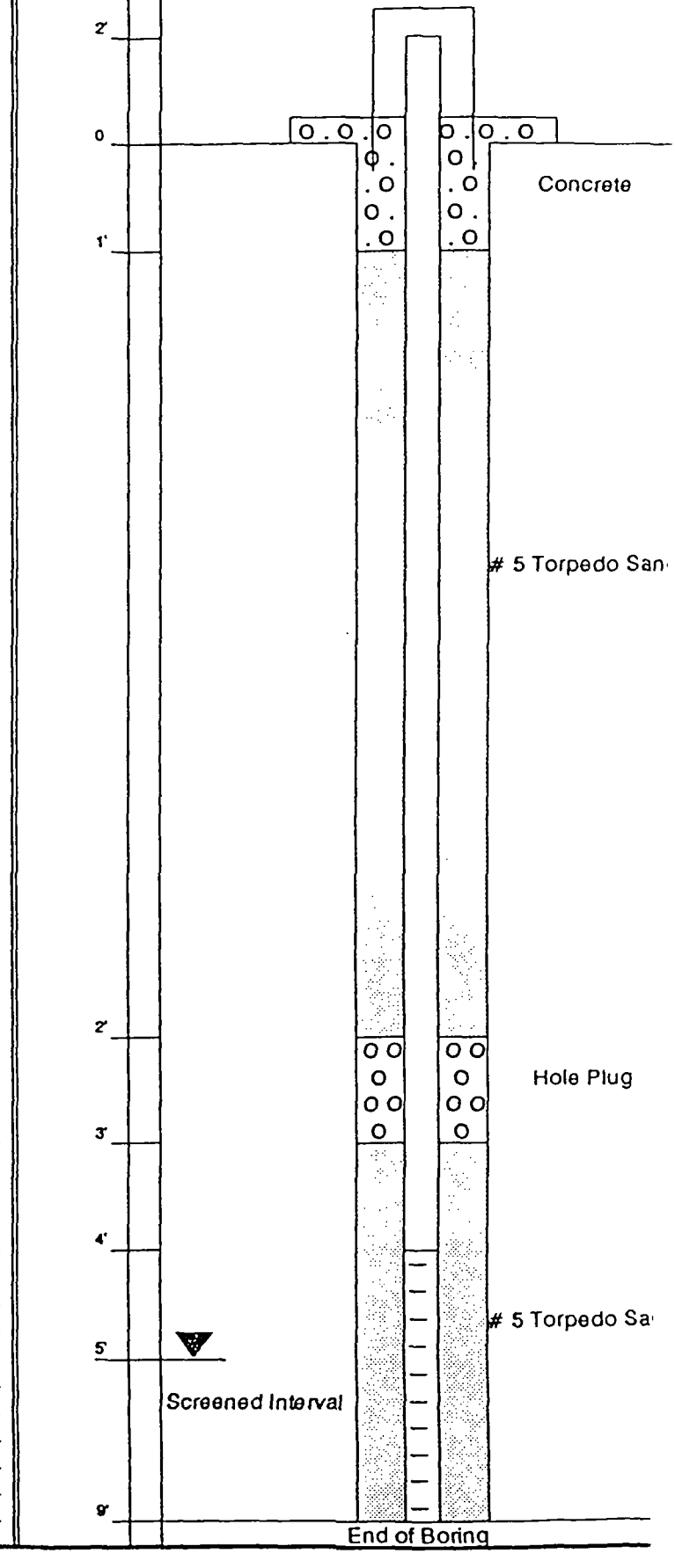
Bentonite Seal Hole plug 2' to 3'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 15 gallons were bailed from the well during development

Remarks An asphalt cover and gravel were encountered at the begining of this boring. Below that a gray, black and white sludge material was encountered and below that a gray fibrous sludge was encountered. Below that a black sand was encountered. An oily sheen and an organic odor were observed while developing this well. The development water was black at the start and became a light gray when development was complete.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 20

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 9.5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
The material below the concrete was a black fill and at the bottom of the fill was a reddish material. The reddish material was fibrous and may contain asbestos and this material was drummed on site.

MONITORING WELL DATA
Monitor well data presented on Well Construction Diagram

LEGEND:
Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	BEC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Asphalt
					Concrete
			0		Black fill material
				5	
					Reddish material
			0		Brown fine to medium sand
				9.5	▼
			0		
				13	End of Boring

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Job No. 651-051-00001

WELL NUMBER 20

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 8'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 7'
Above Ground 0
Cap Plug

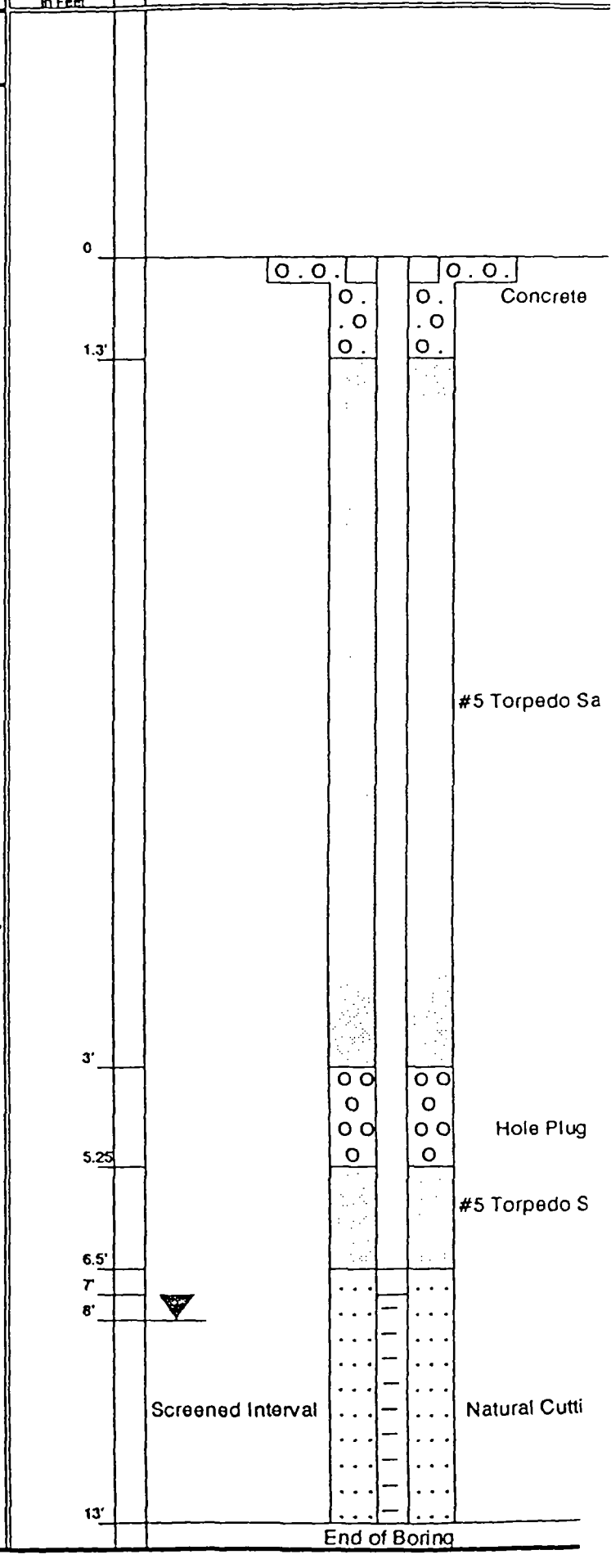
Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 7' to 12'
Backfilled Natural Collapse 6.5' to 12'
5 Torpedo Sand 5.25' to 6.5' and 1.3' to 3'
Bentonite Seal Hole plug 3' to 5.3'
Grout/Type None used

Protective Casing 6" Flushmount Manhole
Materials Cleaned Steamed

Development 16 gallons were bailed from the well during development.

Remarks The location of this boring was in a parking drive area and we had to auger through asphalt and then we needed to jack-hammer through concrete. The soil encountered below the concrete was a black fill material and below that was a reddish material. The next soil encountered was a brown sand. The development water was clear with no oily sheen or organic odor.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 21

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 8'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
A whitish-gray, green and red fibrous sludge was encounterd below the concrete and above the sand. This material may have asbestos in it and it was drummed on site.

MONITORING WELL DATA
Monitor well data presented on
Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	REC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Asphalt
					Concrete
			0		Whitish-gray, green and red fibrous sludge materia
			0	5	
					? ? ? ? ? ?
					Brownish gray fine to coarse sand
			0	8	
			0	10	
			0	13	
					End of Boring

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Job No. 651-051-00001

WELL NUMBER 21

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 8'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 7.5'
Above Ground 0
Cap Plug

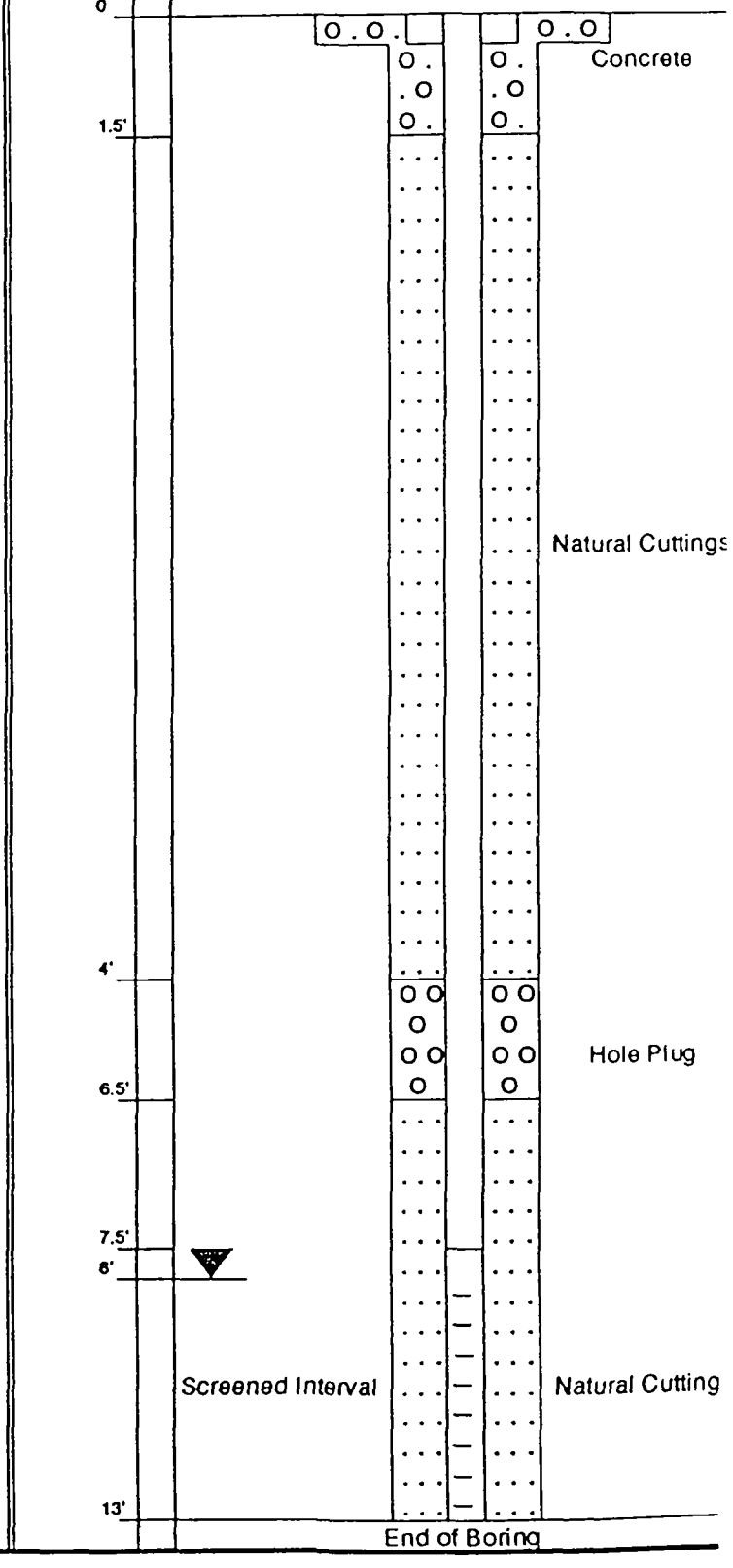
Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 7.5 to 12.5'
Backfilled Natural collapse 6.5' to 13'
and 1.5' to 4'
Bentonite Seal Hole plug 4' to 6.5'
Grout/Type None used

Protective Casing 6" Flushmount Manhole
Materials Cleaned Steamed

Development 7 gallons were bailed from the well during development.

Remarks This well is also located in a parking area and we jack-hammered through the concrete before we could drill the boring. The material encountered below the concrete was a whitish-gray, green and red sludge and below that was a brown sand. The development water did not have an oily sheen or an organic odor.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 22

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 10'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS
A whitish-gray sludge was encountered below the gravel. This material may have asbestos in it. The soils were drummed on site. The OVM gave readings at this location. It was determined that the fumes from the drill rig affected the instrument and were not recorded.

MONITORING WELL DATA
Monitor well data presented on Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	BEC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
					Asphalt
					Limestone base
			0		Gravel - brown
					? ? ? ? ? ? ?
					Yellow-brown fibrous brake pad or cloth material
			0		? ? ? ? ? ? ?
				5	Whitish gray fibrous sludge
			0		
			0		
				10	? ? ? ? ? ? ?
					Grayish brown fine to medium grained sand
				13	End of Boring

umw-22

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Job No. 651-051-00001

WELL NUMBER 22

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-29-91
Hydrogeologist Randy Mattzela
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 10'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 7.5'
Above Ground 0
Cap Plug

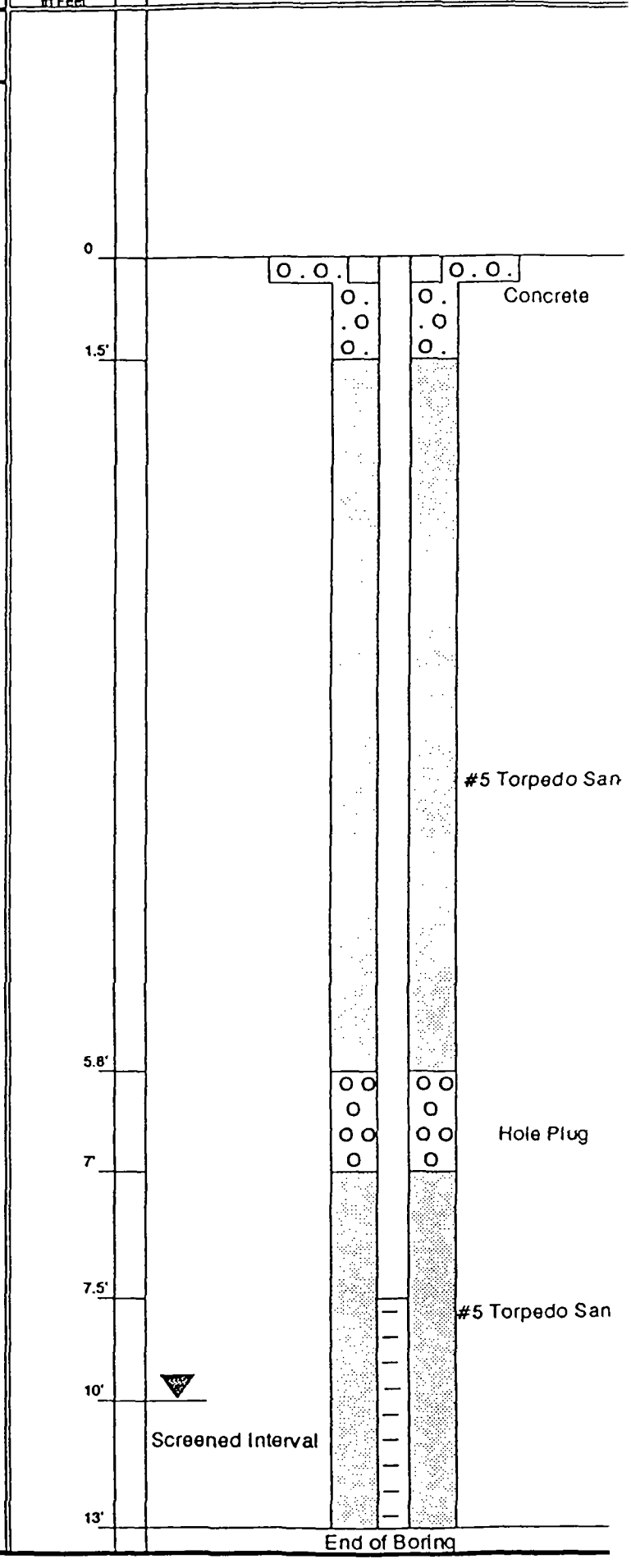
Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 8' to 13'
Backfilled #5 Torpedo sand 7' to 13'
and 1.5' to 5.8'
Bentonite Seal Hole plug 5.8' to 7'
Grout/Type None used

Protective Casing 6" Flushmount Manhole
Materials Cleaned Steamed

Development 15 gallons were bailed from the well during development.

Remarks This well is located in a new parking area and we had to drill through asphalt and a limestone base. Below the base we encountered a gravel and then a yellow-brown fibrous material. Below that we encountered a whitish-gray fibrous sludge and below that was a gray sand. We did get some readings with the instrument at this location, but they were not large enough to warrant a change in level of protection. The development water did not have an oily sheen or an organic odor.

Well Construction Diagram



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Job No. 651-051-00001

LOG OF TEST BORING NO. 23

Sheet 1 of 1
Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Brian Abbott
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER
Encountered @ 8.5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

REMARKS

MONITORING WELL DATA
Monitor well data presented on
Well Construction Diagram

LEGEND:
Blow Count/Blows per 6"
w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample Not Recovered

Sample Type	BEC	Blow Count	HNU/OVM	Depth in Feet	Soil Description
			0		
			0	0	
			0		
			0	5	
			0		
				8.5	▽
			0	10	
			0		
				12.5	End of Boring

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Well Construction Diagram

Job No. 651-051-00001

WELL NUMBER 23

Project Manville UST
Location Waukegan, Illinois

Date Completed 10-31-91
Hydrogeologist Brian Abbott
Driller & Rig Type Fox-D-25
Boring Method 3.75" HSA

GROUNDWATER:
Encountered @ 8.5'
After Completion NA
After NA Hours
Seepage NA
Boring Caved at: NA

MONITOR WELL DATA
Pipe/Type 2" Galvanized riser
Length 7'
Above Ground 2.7'
Cap Plug

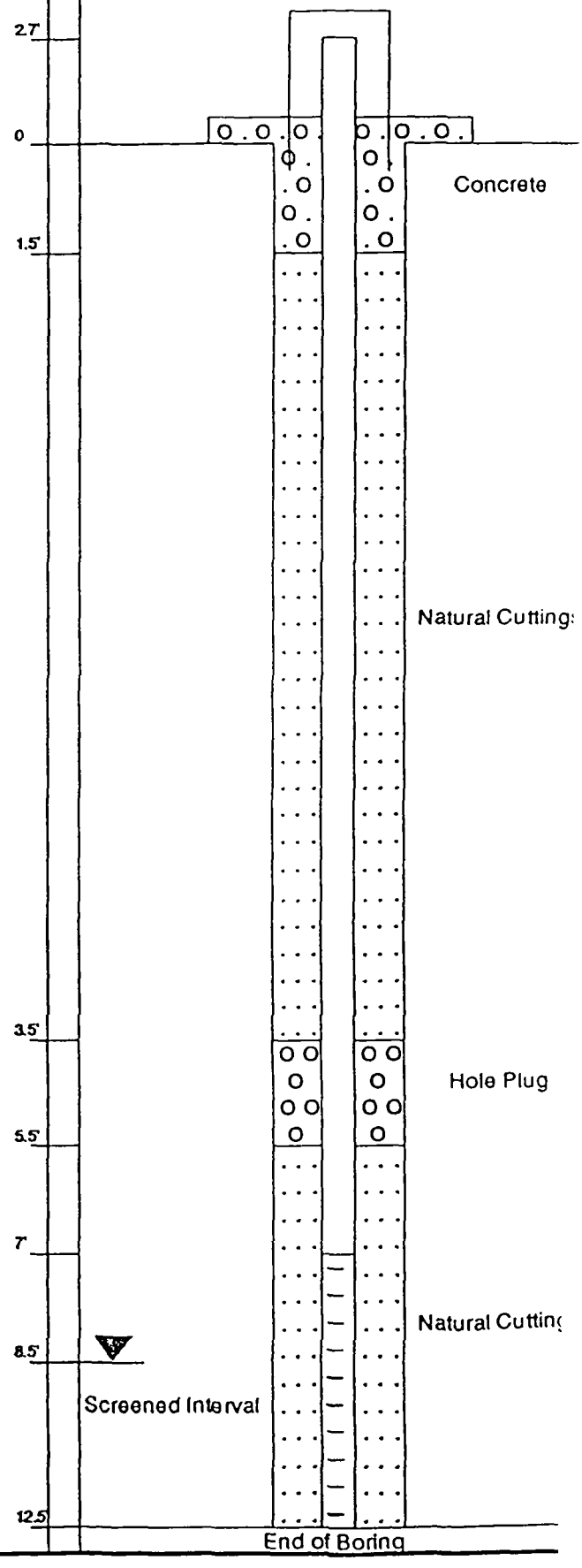
Screen/Type Stainless steel
Size 5'
Slot 10'
Set @ 7' to 12'
Backfilled Natural collapse 5.5' to 12.5'
and 1.5' to 3.5'

Bentonite Seal Hole plug 3.5' to 5.5'
Grout/Type None used

Protective Casing 4" Diameter Steel Above Ground, 4' Length
Materials Cleaned Steamed

Development 5 gallons were bailed from the well during development.

Remarks



Log of Borehole: UMW-24

LFR LEVINE•FRICKE	Client: Johns Manville	Project:		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 14.5	Elevation:	Date Start: 12/17/98
Surface Conditions: Concrete				Date End: 12/17/98
Drilling Contractor: Rock and Soil		Driller: Mike	Geologist/Engineer: J. Nelson	

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
							0		***Concrete***	Boring advanced with hollow stem augers using 2" OD by 2' long split spoons.
1	SS			0			1–2		***Sand*** Yellowish brown (10 yr 5/6); dry; loose; well graded; well rounded gravel present; very fine grain sand.	
2	SS			0			3–4			
3	SS						5–6			
4	SS			0			7–8			
5	SS						9–10		***Sand*** Dark gray (10 yr 4/1); wet; loose; very fine; well rounded; poorly graded sand; strong odor.	
6	SS			300			11–12			
7	SS			0			13–14			
							15		End of Borehole	
							16–19			

Log of Borehole: UMW-25

LFR LEVINE•FRICKE	Client: Johns Manville	Project:		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 17	Elevation:	Date Start: 12/17/98
Surface Conditions: Concrete				Date End: 12/17/98
Drilling Contractor: Rock and Soil		Driller: Mike	Geologist/Engineer: J. Nelson	

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
							0		***Concrete***	Boring advanced with hollow stem augers using 2" OD by 2' long split spoons.
1	SS						1–3		***Sand*** Yellowish brown (10 yr 5/6); dry; very fine; trace of well rounded poorly graded gravel; strong odor.	
2	SS			100			4			
3	SS			>1000			6			
4	SS			>1000			8		***Sand*** Yellowish brown (10 yr 5/4); dry; loose; very fine grain; trace of well rounded gravel; strong odor.	
5	SS						10			
6	SS						11–12		***Sand*** Gray (10 yr 4/2); wet; loose; very fine grain; trace of well rounded gravel; strong odor.	
7	SS						13–14			
8	SS						15–16			
							17		End of Borehole	
							18–19			

Log of Borehole: UMW-26

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:**	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 15 / **Elevation:**	**Date Start:** 12/18/98
Surface Conditions: Asphalt			**Date End:** 12/18/98
Drilling Contractor: Rock and Soil	**Driller:** Mike	**Geologist/Engineer:** J. Nelson	

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
1	Hand						0–5		***Sand*** Yellowish brown (10 yr 5/4); dry; loose; very fine grain; trace of poorly graded well rounded gravel; slight odor.	Boring advanced with hollow stem augers using 2" OD by 2' long split spoons. Hand auger to 5' due to utilities.
2	SS			>1000			6		***Sand*** Gray (10 yr 4/2); wet; loose; strong odor.	
3	SS			>1000			7–8		***Sandy Silt*** Black (10 yr 2/1); trace coarse sand; organic matter. ***Sand*** Gray (10 yr 4/2); wet; loose; very fine grain; trace of coarse sand; odor present.	
4	SS			>1000			9–10			
5	SS			>1000			11–12			
6	SS			>1000			13–14			
							15		End of Borehole	
							16–19			

Log of Borehole: UMW-27

LFR LEVINE•FRICKE	Client: Johns Manville	Project:		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 13	Elevation:	Date Start: 12/18/98
Surface Conditions: Top Soil and Gravel				Date End: 12/18/98
Drilling Contractor: Rock and Soil		Driller: Mike	Geologist/Engineer: J. Nelson	

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
							0		***Top Soil and Gravel***	Boring advanced with hollow stem augers using 2" OD by 2' long split spoons.
							1		***Sand*** Gray (10 yr 4/2); wet; loose; trace of gravel; strong odor.	
1	SS			>1000			2			
							3			
2	SS			>1000			4			
							5			
3	SS			>1000			6			Water encountered at 6'6".
							7			
4	SS			>1000			8			
							9			
5	SS						10		***Sand*** Gray (10 yr 4/2); wet at 6'6"; loose: well rounded poorly-graded gravel; strong odor.	
							11			
6	SS						12			
							13		End of Borehole	
							14			
							15			
							16			
							17			
							18			
							19			

Log of Borehole: UMW-29

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery; Bldg. A	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12' / **Elevation:**	**Date Start:** 7/22/02
Surface Conditions: Concrete			**Date End:** 7/22/02
Drilling Contractor: CABENO		**Driller:**	**Geologist/Engineer:** W. Teskey

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
							0		***Concrete*** Gray; dry; hard; 10.5" thick.	Boring advanced with a geoprobe using a 2" OD by 5' long hollow stem auger.
							1		***Poorly Graded Sand (SP)*** Brown; dry; loose.	Lithology described from soil cuttings.
							2			
							3			
							4		5-10% medium gravel grades in; wet.	
			0.3				5			
							6		gray grades in.	
							7			
							8			
							9			
							10			
			1.0				11			
							12		End of Borehole	2" OD PVC monitoring well constructed on 7/22/02. Screen from 1.5 to 11.5'
							13			
							14			
							15			

Log of Borehole: UMW-30

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery; Bldg. A		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12'	Elevation:	Date Start: 7/22/02
Surface Conditions: Concrete				Date End: 7/22/02
Drilling Contractor: CABENO		Driller: B. Castillo	Geologist/Engineer: W. Teskey	

SAMPLE DATA | SUBSURFACE PROFILE

Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 5' long hollow stem auger.
									Concrete Gray; dry; hard; 6" thick.	
				1180			1		***Poorly Graded Sand (SP)*** Dark gray; dry; loose; solvent odor.	Lithology described from soil cuttings.
							2			
							3			
							4		5-10% medium gravel grades in; wet.	
							5			
							6			
				696			7			
							8			
							9			
							10			
				462			11			
							12		End of Borehole	2" OD PVC monitoring well constructed on 7/22/02. Screen from 1.6 to 11.6'.
							13			
							14			
							15			

KMA

& ENGINEERS • CONSULTANTS • PLANNERS •

KUMAR MALHOTRA & ASSOCIATES, INC.

00 East Bell Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

Near New Monitoring wells # 12 + 13.

"RIMW-01"

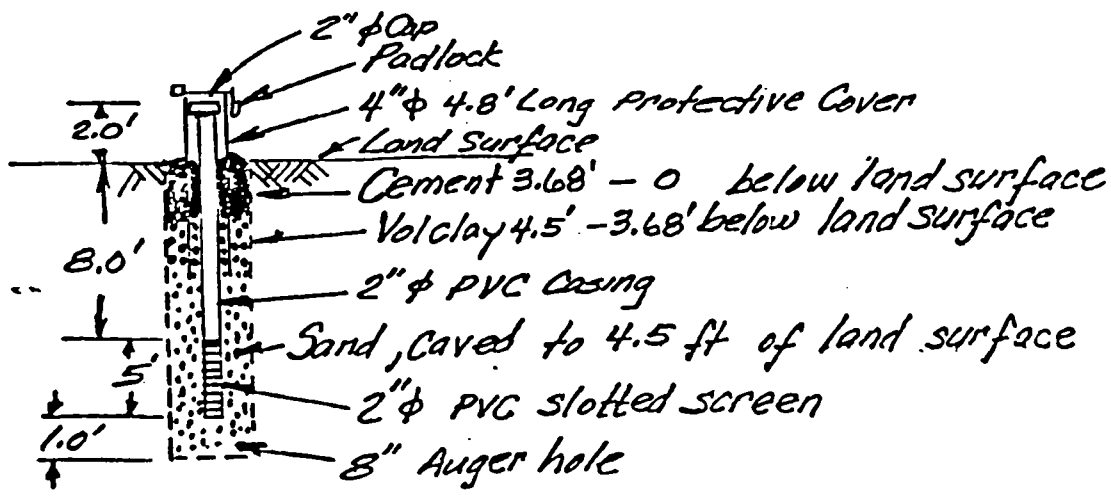
RECORD OF WELL

Project No. _____
Well File No. _____
Owner's Well No. 1
Client Johns-Manville
Date Sept. 19, 1984
2:15-4:05 pm

1. LOCATION: State Illinois County: Lake Township: Benton
Distances Grid: 7,526.322 North, SE ¼ SW ¼ SE ¼ Sec. 10 T. 45 N, R. 12 E
11,804.300 East
2. OWNER John-Manville Address Waukegan, Illinois
CONTRACTOR American Geotechnical* Address Novi, Michigan
3. ELEVATION of top of well: 591.16 ft. (above, the level of: mean sea level Rept'd.)
4. TYPE of well: Monitoring Date Constructed Sept 19, 84 Driller R&R Near
5. DEPTH of well: 13.0 ft. meas Depth to bedrock _____ ft. Formation _____
6. DIAMETER: 2 in.
CASING: kind PVC ; size 2 ; length 10.0 ft. between +2.0 & 8.0 ft.
kind _____ ; size _____ ; length _____ ft. between _____ & _____ ft.
SCREEN: make and material PVC slotted ; length 5.0 ft.; Dia. 2 in.
size of openings 8 slot depth to (packer or top of slots) _____ ft.
7. WATER LEVEL: 6.35 ft. (below) Top of Casing Meas'd. Sept.19,1984
8. PUMP: make and serial number _____ Cap. _____ gpm @ _____ ft. (head)
power _____; motor h.p. _____; length of column & shaft _____ ft. dia. of column & shaft _____ in.
bowls _____ ft.; _____ stages; tail pipe _____ ft.; strainer _____; lubrication _____
9. YIELD: original yield _____; pumped _____ gpm for _____ hours with _____ drawdown
10. LOG and REMARKS:* Hydrogeologic Engineering, Inc.

0 - 2'	Sand, fine	
2 - 4'	Cinders, pipe fragments	
4 - 14'	Sand, fine to med., black cleaning to tan with depth	

Pumped 108 gallons of water during development



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KUMAR MALHOTRA & ASSOCIATES, INC.

100 East Belt Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

Grid Location of New MW # 1 + #2 = 8883.06 N
8456.33 E

"RIMW-05"

RECORD OF WELL

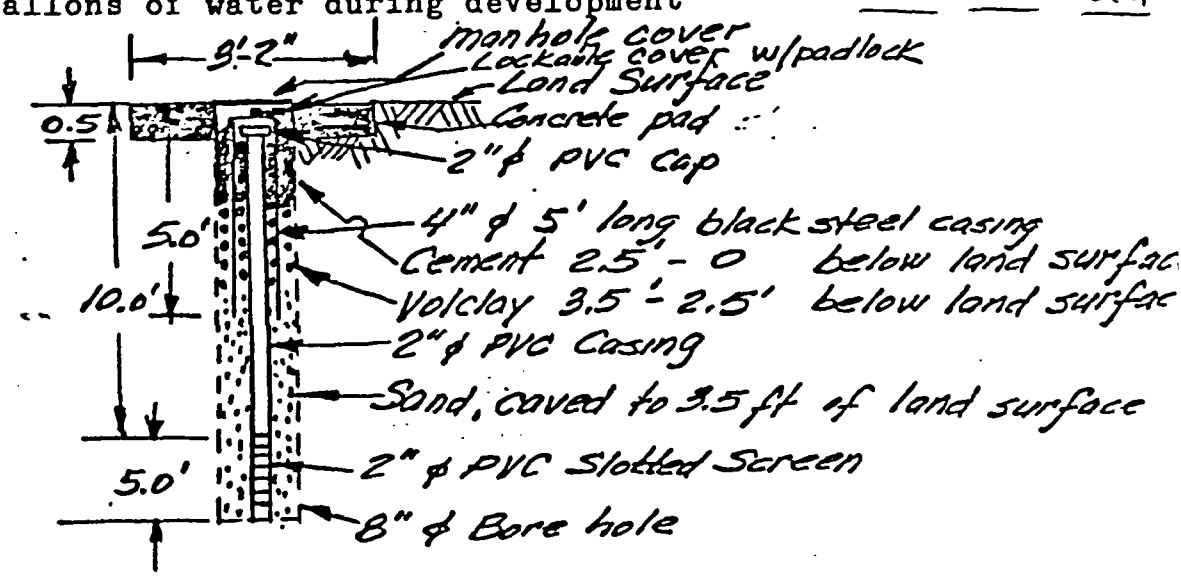
Project No. [illegible]
Well File No.
Owner's Well No. 5
Client Johns-Manville
Date Sept 19, 1984
2:45-5:00 pm

1. LOCATION: State Illinois County: Lake Township: Benton
   Distances Grid: 8,869.430 North SE ¼ NW ¼ SW ¼ Sec. 10 T. 45 N R. 12 E
   8,463.178 East
2. OWNER Johns-Manville Address Waukegan, Illinois
   CONTRACTOR American Geotechnical &* Address Novi, Michigan
3. ELEVATION of top of well: 588.00 ft. (above, the level of: mean sea level Rep'd.)
4. TYPE of well: Monitoring Date Constructed Sept 19, 84 Driller R&R Near
5. DEPTH of well: 15.0 ft. meas. Depth to bedrock ft. Formation
6. DIAMETER: 2 in.
   CASING: kind PVC ; size 2 ; length 10 ft. between 0 & 10 ft.
   kind ; size ; length ft. between & ft.
   SCREEN: make and material PVC slotted ; length 5.0 ft.; Dia 2 in.
   size of openings 8 slot depth to (packer or top of slots) ft.
7. WATER LEVEL: 4.71 ft. (above, below) Top of casing Meas'd. Sept 19, 1984
8. PUMP: make and serial number Cap gpm @ ft. (head)
   power ; motor h.p. ; length of column & shaft ft. dia. of column & shaft in.
   bowls ft.; stages; tail pipe ft.; strainer ; lubrication
9. YIELD: original yield ; pumped gpm for hours with drawdown
10. LOG and REMARKS: * Hydrogeologic Engineers, Inc.

0 - 4' Cinders
4 - 5' Sand, fine, tan
5 - 15" Sand, fine to med., tan, waterbearing

Pumped 90 gallons of water during development

Flush-Mount well



BORING LOG

SMW-W

Drill Rig:	Hurricane	Date Drilled:	10/6/98
Boring Dia:	8 Inches	Boring Number:	MW-W

Logged By: Walter Weinig

Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
						SP - Poorly graded fine sand. Hit cobbles at 3'.
				5		SP - Poorly graded medium to fine sand, increasing gravel and rubble content. Cobbles to 2" long, somewhat flattened and elongated.
				10		SW - Well graded fine to coarse sand with gravel. Tan color, subrounded grains.
				15		GW - Well graded gravel with sand. Rounded to subrounded gravels up to 2". No fines, sand fraction fine-coarse. Approximately 60/50 gravel/sand.
						SW - Well graded sand with gravel. Finer sand fraction than previous, fewer gravels. Bottom of boring at 19'.
				20		
				25		
				30		
				35		

Completion Notes:

2" stainless steel blank casing
2", 0.010 slot, stainless steel screen
20-40 Colorado Silica sand
3' above ground blank stick up encased in steel monument

Site:

Johns Manville Waukegan

Waukegan, Illinois

Project No.: 1488a Page 1

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KUMAR MALHOTRA & ASSOCIATES, INC.

3000 East Belt Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

SMW-X

"X"

Owner's Well No. 4
Client Johns-Manville
Date Sept 18, 1984
12:50-2:07 pm

RECORD OF WELL

1. LOCATION: State Illinois County: Lake Township: Benton

Distances Grid: 9,757.456 North, NW ¼ NW ¼ SE ¼ Sec. 11 T. 45 N, R. 12
13,271.289 East

2. OWNER Johns-Manville Address Waukegan, Illinois

CONTRACTOR American Geotechnical &* Address Novi, Michigan

3. ELEVATION of top of well: 587.20 ft. (above, ... the level of mean sea level( ) Rept'd.

4. TYPE of well: Monitoring Date Constructed Sept 19, 84 Driller R&R Near

5. DEPTH of well: 13.0 ft. meas Depth to bedrock ____ ft. Formation ____

6. DIAMETER: 2 in.

CASING: kind PVC ; size 2 ; length 10 ft. between +2.0 & 8.0 f

kind ____ ; size ____ ; length ____ ft. between ____ & ____ f

SCREEN: make and material PVC slotted ; length 5.0 ft.; Dia. 2 i

size of openings 8 slot depth to (packer or top of slots) ____ f

7. WATER LEVEL: 4.58 ft. (... below) Top of casing Meas'd. Sept 19, 1984

8. PUMP: make and serial number ____ Cap. ____ gpm @ ____ ft. (hea

power ____; motor h.p. ____; length of column & shaft ____ ft. dia. of column & shaft ____ i

bowls ____ ft.; ____ stages; tail pipe ____ ft.; strainer ____; lubrication ____

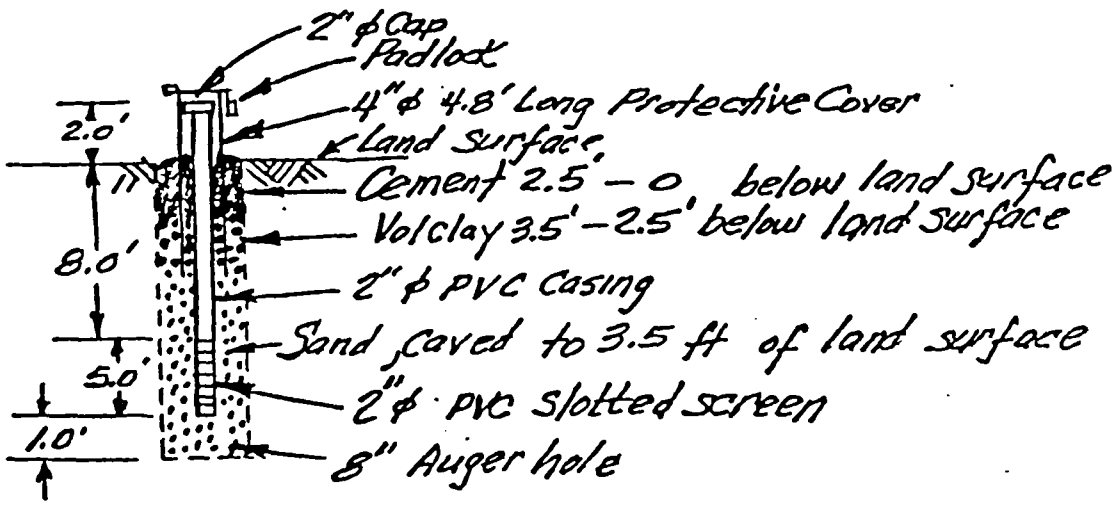
9. YIELD: original yield ____; pumped ____ gpm for ____ hours with ____ drawdow

10. LOG and REMARKS: * Hydrogeologic Engineers, Inc.

0. - 3' Sand, fine to coarse, gravelly

3 - 14' Sand, fine to coarse, waterbearing

Pumped 90 gallons of water during development



HMA
• ENGINEERS • CONSULTANTS • PLANNERS •
AR MALHOTRA & ASSOCIATES, INC.
3000 East Belt Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

Monitoring Well "Y"
Keep
SMW-Y

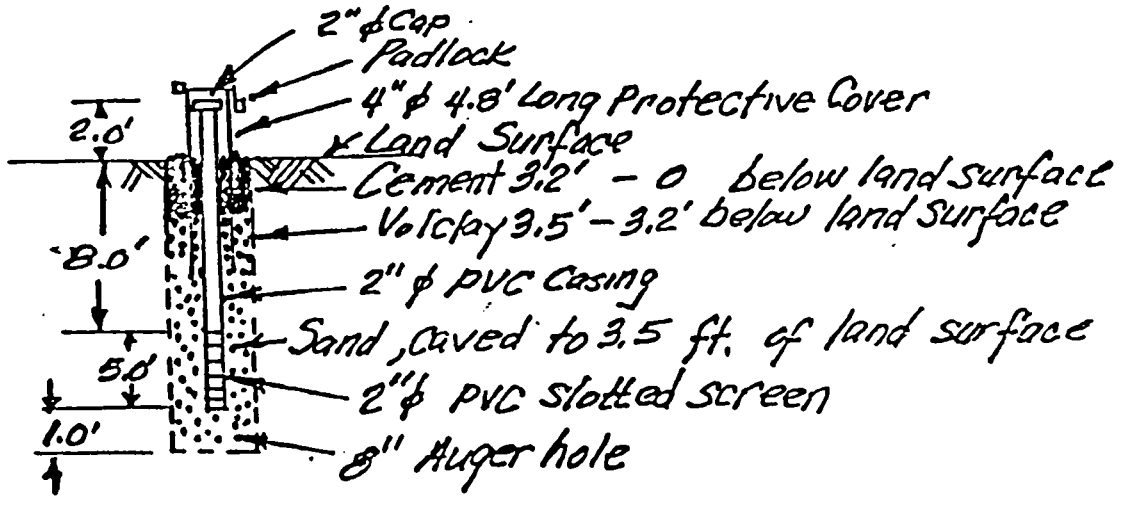
Project No. S94-3224
Well File No.
Owner's Well No. 3
Client Johns-Manville
Date Sept 19, 1984
9:15-10:20 am

RECORD OF WELL

1. LOCATION: State Illinois County: Lake Township: Benton
   Distances Grid: 8,604.949 North SW ¼ NW ¼ SW ¼ Sec. 11 T. 45 N, R. 12 E
   13,276.405 East
2. OWNER Johns-Manville Address Waukegan, Illinois
   CONTRACTOR American Geotechnical * Address Novi, Michigan
3. ELEVATION of top of well: 588.92 ft. (, below) the level of: mean sea level (E. Rept'd.)
4. TYPE of well: Monitoring Date Constructed Sept19,84 Driller R&R Near
5. DEPTH of well: 13.0 ft. meas Depth to bedrock ft. Formation
6. DIAMETER: 2 in.
   CASING: kind PVC ; size 2 ; length 10 ft. between +2.0 & 8.0 ft.
   kind ; size ; length ft. between & ft.
   SCREEN: make and material PVC slotted ; length 5.0 ft.; Dia. 2 in.
   size of openings 8 slot ; depth to (packer or top of slots) ft.
   WATER LEVEL: 6.28 ft. below) Top of casing Meas'd. Sept 19, 1984
8. PUMP: make and serial number Cap gpm @ ft. (head)
   power ; motor h.p. ; length of column & shaft ft. dia. of column & shaft in.
   bowls ft.; stages; tail pipe ft.; strainer ; lubrication
9. YIELD: original yield ; pumped gpm for hours with drawdown
10. LOG and REMARKS: * Hydrogeologic Engineers, Inc.

0 - 3' Sand , fine to coarse, gravelly, fine
3 - 14' Sand, fine to coarse, gravelly, fine, waterbearing

Pumped 120 gallons of water during development



KMA

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KUMAR MALHOTRA & ASSOCIATES, INC.

1000 East Belt Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

Monitoring Well "Z"

Keep

SMW-Z

Project No. 074-5224
Well File No.
Owner's Well No. 2
Client Johns-Manville
Date Sept 19, 1984
8:00-9:08 am

RECORD OF WELL

1. LOCATION: State Illinois County: Lake Township: Benton

Distances Grid: 7,629.600 North, SW ¼ SW ¼ SW ¼ Sec. 11 T. 45 N, R. 12 E
13,257.249 East

2. OWNER Johns-Manville Address Waukegan, Illinois
CONTRACTOR American Geotechnical* Address Novi, Michigan

3. ELEVATION of top of well: 587.88 ft. (above, the level of: mean sea level Rept'd.)

4. TYPE of well: Monitoring Date Constructed Sept 19, 84 Driller R&R Near

5. DEPTH of well: 13.0 ft. meas. Depth to bedrock ft. Formation

6. DIAMETER: 2 in.

CASING: kind PVC ; size 2 ; length 10.0 ft. between +2 & 8 ft.
kind ; size ; length ft. between & ft.

SCREEN: make and material PVC slotted ; length 5.0 ft.; Dia. 2 in.
size of openings 8 slot ; depth to (packer or top of slots) ft.

7. WATER LEVEL: 5.66 ft. below) Top of Casing Rept'd. Sept 19, 1984

8. PUMP: make and serial number Cap gpm @ ft. (head)
power ; motor h.p. ; length of column & shaft ft. dia. of column & shaft in.
bowls ft.; stages; tail pipe ft.; strainer ; lubrication

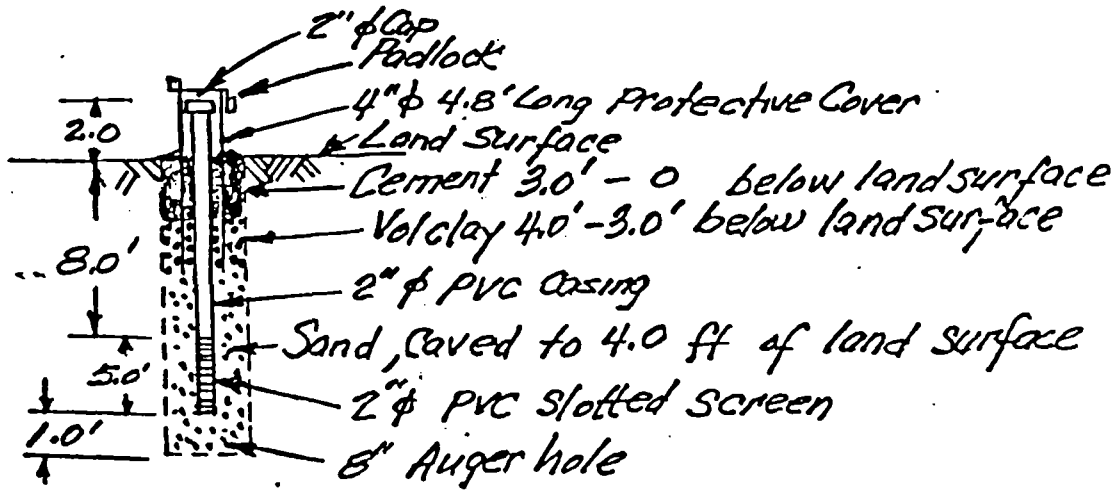
9. YIELD: original yield ; pumped gpm for hours with drawdown

10. LOG and REMARKS: * & Hydrogeologic Engineers, Inc.

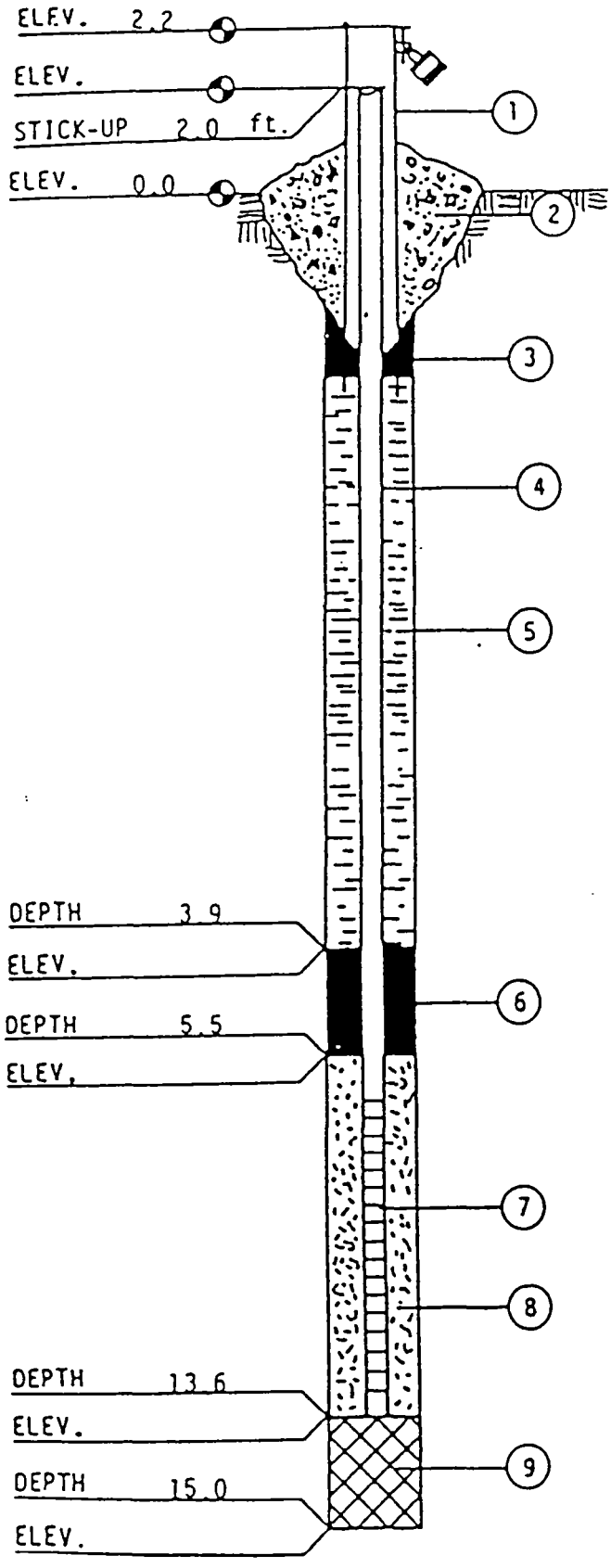
0 - 2.5' Sand, fine to coares, gravelly, beach cobbles

2.5 - 14' Sand, fine to med., gravelly, waterbearing

Pumped 105 gallons of water during development



SMW-01



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-1

DATE 10-25-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

SMW-01

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

LOG OF BORING MW1

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-1000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Trainer	DATE STARTED: 10/24/88	DATE FINISHED: 11/25/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 15' Bgs	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon		INSPECTOR: David T. Heidlauf	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES: TYPE NUMBER	RECOV. FT	PENETR. RESIST BL/6 IN.	CORE: RECOVERY %	RQD	READINGS (PPM): SAMPLE	AMB. AIR	REMARKS
	SM; loose, dark brown, m SAND with some silt & clay		1, 2						0	0	
	SP; loose, gray m SAND		3, 4, 5								
	SP; loose, dark gray, m-vf SAND, trace gravel		6, 7, 8, 9, 10, 11						0	0	water table 5.5' Bgs
	SW; medium dense, dark gray c-f SAND, trace of gravel and shell fragments		12, 13, 14						0	0	3' of sand heaving
	Bottom of Boring 15' Bgs		15, 16, 17, 18, 19								

LOG of TEST BORING

SMW-01

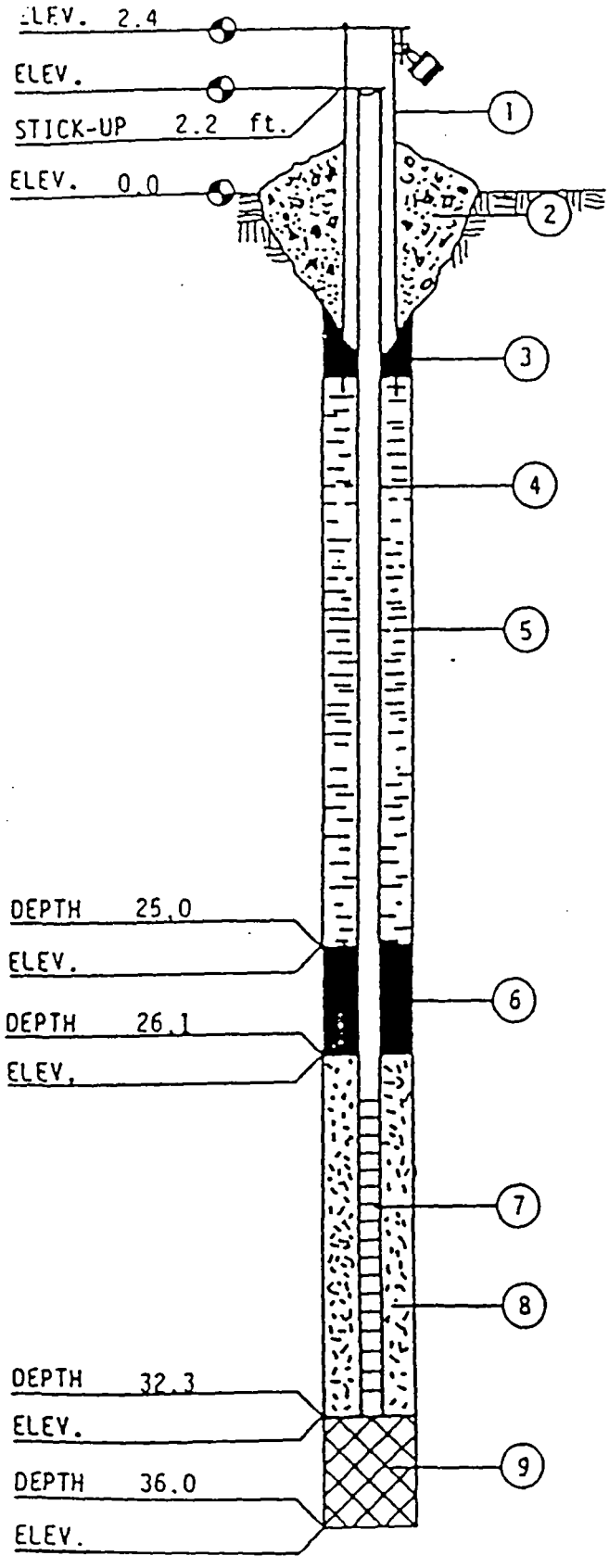
PROJECT NO.	812585	BORING No.	MW-1
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	3.0'
RIG	9920	DATE STARTED	10-24-88
CHECKED BY	TCR	DATE COMPLETED	10-24-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Dark brown fine SAND, trace of Silt		
				2			
				3			
				4	Light brown fine SAND, trace of Silt		
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16	End of boring MW-1 @ 15.0'		
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring	5.6'	WELL INSTALLATION DEPTH	13.6'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-02



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-2

DATE 10-25-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO
   LOCKING (YES) NO
2. CONCRETE SEAL (YES) NO
3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete
4. SOLID PIPE TYPE 304 Stainless Steel
   SOLID PIPE LENGTH 27.0 ft.
   JOINT TYPE SLIP/GLUED (THREADED)
5. TYPE OF BACKFILL Cement Bentonite Grout
   HOW INSTALLED - (TREMIE) FROM SURFACE
6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets
7. SCREEN TYPE 304 Stainless Steel
   SCREEN LENGTH 5.0
   SLOT-SIZE .008 LENGTH 4.5 ft.
   SCREEN DIAMETER 2.0 in.
8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils and #30 Flint Sand
9. TYPE OF BACKFILL Natural Soils
10. DRILLING METHOD 4 1/4" HSA
11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

SMW-02

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

LOG OF BORING MW 2

SHEET 1 OF 2

PROJECT AND LOCATION: Johns-Manville Disposal Area Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-10000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Trinter	DATE STARTED: 10/25/88	DATE FINISHED: 10/25/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 36.0	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO SAMPLES: DIST / UNDIST. / CORE	
CASING		WATER LEVEL (FT): FIRST / COMPL. / 24 HR.	
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6 IN.	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
			1								
			2								
	SP, loose, dark gray brown m SAND, trace f. gravel moist		3						0	0	
			4								
			5								
			6								
			7								Drilling with non-rotating casing used in an attempt to prevent sand heaving
	SP, loose, dark gray brown m SAND, trace f gravel, wet		8						0	0	
			9								
			10								
			11								
			12								
			13								
	SW, medium dense, dark gray, c-m SAND, some f. gravel saturated		14						0	0	
			15								
			16								
			17								
	SW, same as above		18								
			19								

C.C. JOHNSON & MALHOTRA, P.C.

SMW-02

LOG OF BORING MW2

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6IN	CORE RECOVERY %	CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	SW; medium dense, gray C-M SAND, some gravel, saturated		21								
			22								very hard to drill very slow penetration rate.
	GW, very dense, C-F GRAVEL, some pebbles and cobbles, trace sand		23	S1	0.2						center rod pulled hole washed with tricone - 6-7 ft of sand heaving
			24								
			25								
	SW, dense, light gray C-M SAND with some bedded gravels, saturated		26								2" split spoon blow
			27								
			28								
			29								
			30								
			31								till contact
	ML; very hard, light gray, NONplastic SILT, some pebbles and coarse gravel moist		32								
			33	S2	0.7	120 100					
			34								Augered to depth of 34.5' Bgs
	CL; hard, gray, slightly plastic CLAY, trace f. gravel and silt moist		35	S3	1.3	46 60					
	Bottom of Boring 36' Bgs		36								
			37								
			38								
			39								
			40								
			41								
			42								
			43								
			44								
			45								

SMW-02

LOG OF TEST BORING

PROJECT NO.	812585	BORING No.	MW-2
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-24-88
CHECKED BY	TCR	DATE COMPLETED	10-24-88

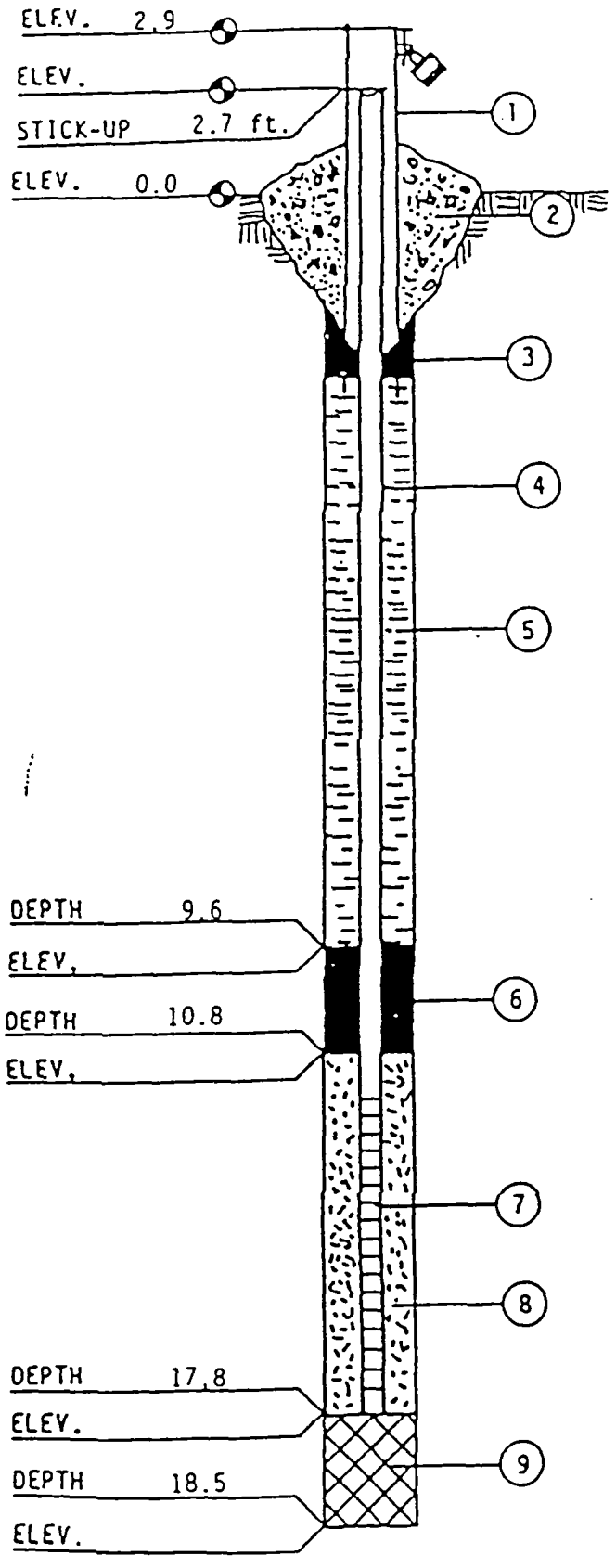
SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	.5' Silty Sandy TOPSOIL		
				2			
				3	Brown very fine SAND		
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22	Fine Gravely SAND		
				23			
				24	Brown fine SAND		
1	W	0/18	0	25			
				26			
				27			
				28			
				29			
				30			
				31			
2	M	100/6	.6	32			
				33	Very dense SILT, trace of Clay and Gravel		
				34			
3	M	197	1	35			
				36	End of boring MW-2 @ 35.0'		
				37			

W.L. MEASUREMENTS:
While drilling 6.0
4 Hrs. after boring
___Hrs. after boring
Cave in depth

DRILL CASING INSTALLED	None
ADDITIVES USED	None
WELL INSTALLATION DEPTH	32.3'
ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-03



MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-3

DATE 10-26-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 15.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

EXPLORATION TECHNOLOGY INC.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-03

LOG OF BORING MW 3

SHEET 1 OF 1

PROJECT AND LOCATION: Johns Manville Disposal Area, Waukegan, IL		ELEVATION AND DATUM	PROJECT NO: 06-51-0001-1000-01
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Taintor	DATE STARTED: 10/26/88	DATE FINISHED: 10/26/88
DRILLING EQUIPMENT: Diedrich D-50		COMPLETION DEPTH	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES: TYPE NUMBER	SAMPLES: RECOV. FT	SAMPLES: PENETR RESIST BL/6 IN	R. CORE: RECOVERY %	R. CORE: RQD	READINGS (PPM): SAMPLE	READINGS (PPM): AMB. AIR	REMARKS
	SP; loose, dark brown f SAND some silt, trace of organic matter		1								
			2								
	SP, loose brown m-f SAND moist		3								
			4								
			5							0	
			6								
	SW; medium dense, brown c-m SAND, with some bedded gravels, moist		7								
			8								
			9								
			10								← water table
			11								
			12								
	SW; medium dense, brown c-m SAND with some bedded gravels, trace flat rounded cobbles, wet		13								
			14							0	
			15								
			16								
			17								
			18								2.5' of sand heave
	Bottom of Boring 18.5'		19								

LOG OF TEST BORING

SMW-03

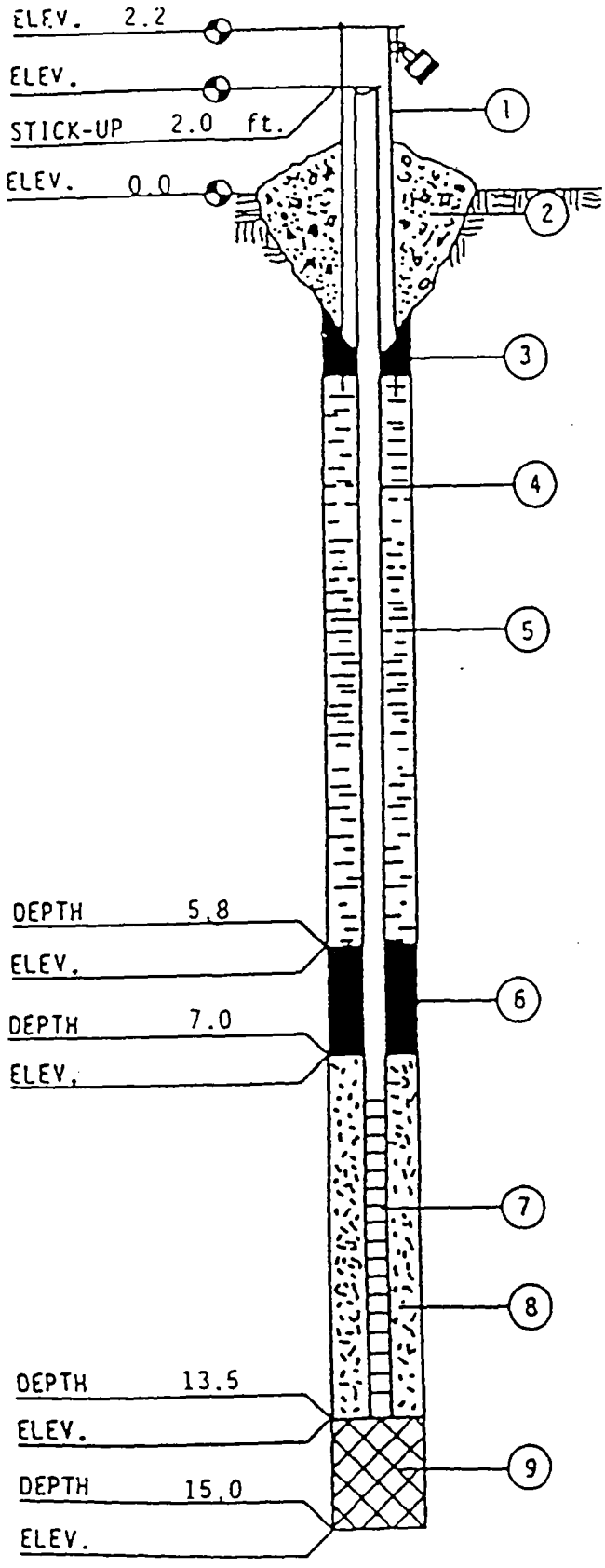
PROJECT NO.	812585	BORING No.	MW-3
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-26-88
CHECKED BY	TCR	DATE COMPLETED	10-26-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Brown fine SAND, trace of Silt		
				2			
				3			
				4	Brown fine SAND, trace of Silt, little		
				5	Gravel		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19	End of boring MW-3 @ 18.5'		
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:			
While drilling	10.0'	DRILL CASING INSTALLED	None
1/4 Hrs. after boring	10.2'	ADDITIVES USED	None
__Hrs. after boring		WELL INSTALLATION DEPTH	17.0'
ave in depth		ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-04



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-4

DATE 10-26-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-04

LOG OF BORING MW 4

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-10000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Tainter	DATE STARTED: 10/26/88	DATE FINISHED: 10/26/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon			
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"	INSPECTOR: David T Heidlauf	

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6 IN	R. CORE RECOVERY %	RQD	READINGS (PPM) SAMPLE	AMB. AIR	REMARKS
	SP; loose, blackish brown m SAND with trace silt and organic matter		1								
	SP; loose, light brown, c-f SAND trace fine gravel		2							0	
			3								
	GW; dense, c-f GRAVEL, some flat, rounded cobbles		4								
			5								
			6								
	SW; medium dense, brown gravelly, c-f SAND, moist		7							0	← water table
			8								
			9								
	SW; medium dense, brown c-f SAND, some gravel, wet		10								
			11								
			12								
			13								
	SW; medium dense, brown C-F SAND, some gravel, wet		14							0	
	Bottom of Boring 15'		15								
			16								
			17								
			18								
			19								

LOG OF TEST BORING

SMW-04

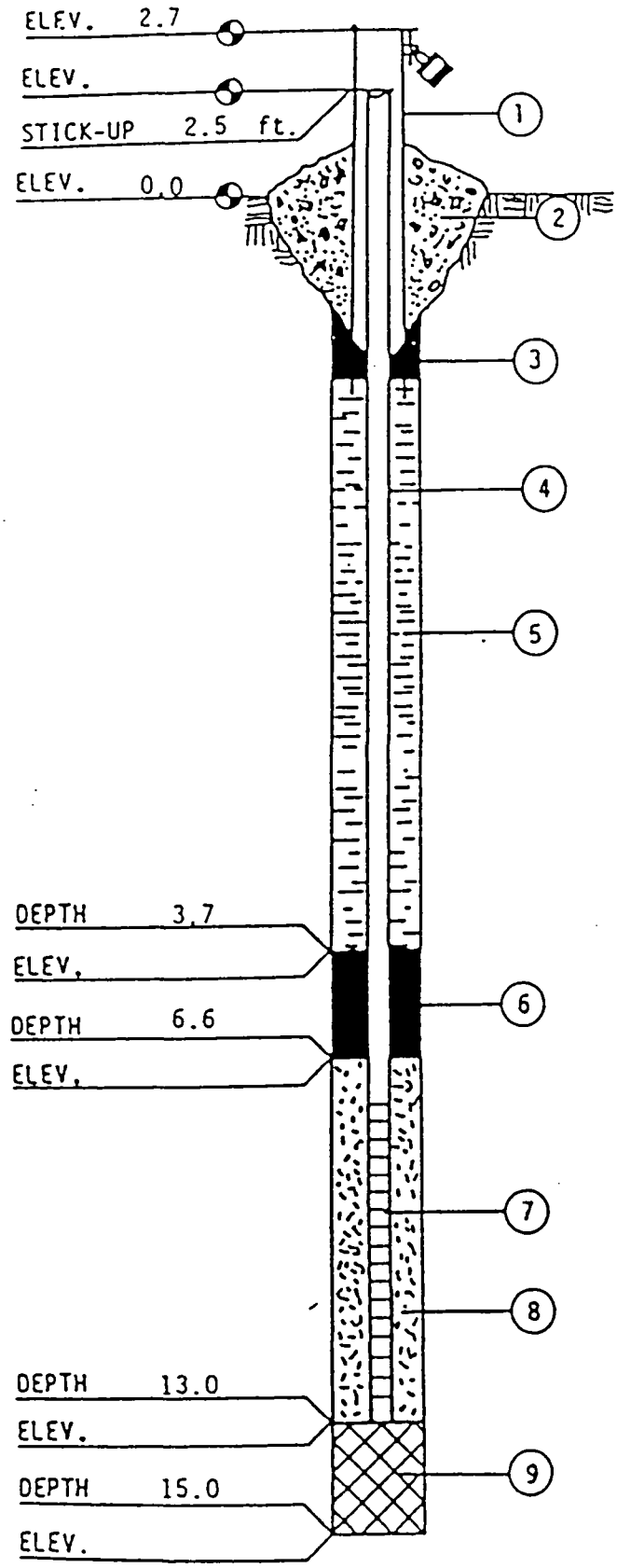
PROJECT NO.	812585	BORING No.	MW-4
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-26-88
CHECKED BY	TCR	DATE COMPLETED	10-26-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Brown fine SAND, Trace of Silt		
				2			
				3			
				4			
				5	Brown fine Coarse SAND, trace of Silt, little		
				6	fine Gravel		
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16	End of boring MW-4 @ 15.0'		
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:			
While drilling	8.0'	DRILL CASING INSTALLED	None
1/4 Hrs. after boring	7.5'	ADDITIVES USED	None
_Hrs. after boring		WELL INSTALLATION DEPTH	13.5'
.e in depth		ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-05



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-5

DATE 10-28-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-05

LOG OF BORING MW5

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-1000
DRILLING AGENCY: Exploration Technology INC	FOREMAN: Ken Trinter	DATE STARTED: 10/26/88	DATE FINISHED: 10/28/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 15' Bgs	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER / WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER / WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6 IN	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	SW; medium dense, dark gray m-f SAND, some silt and clay, trace gravel and white paper residue		1								
	SP; loose, dull gray, c-m-f SAND		2								
	SW; medium dense, brown c-f SAND trace silt, f gravel, cobbles		3								
	GW, dense, brown GRAVEL, some sand moist		4								
			5								
			6								← water table
			7								
			8								
	SW, medium dense, brown c-m SAND, some flat rounded cobbles, trace gravel wet		9								
			10								
			11								
	SW, medium dense, blackish gray c-m SAND, some fine gravel saturated		12								
			13								
	SW; med dense, blackish gray, gravelly c-m SAND saturated		14						1.5	0	1PPM at auger opening
	Bottom of Boring 15'		15								
			16								
			17								
			18								
			19								

SMW-05

LOG TEST BORING

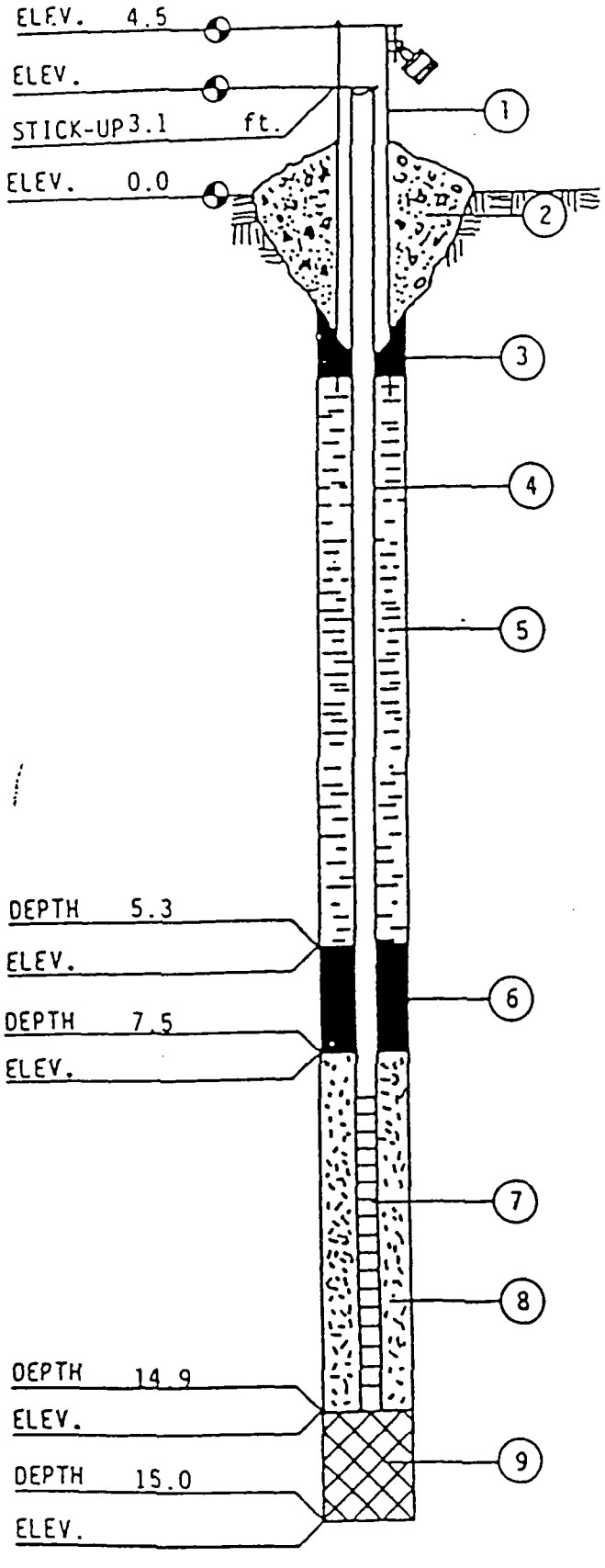
PROJECT NO.	812585	BORING No.	MW-5
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-26-88
CHECKED BY	TCR	DATE COMPLETED	10-26-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Dark brown fine SAND, trace of Silt, some trash		False start - moved ahead 2.0'
				2			
				3			
				4	Brown fine SAND, trace of Silt, little fine Gravel		
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			Safety Level "C" required to drill from 15.0' - 18.0'
				17			
				18			
				19	End of boring MW-5 @ 18.0'		
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	10.0'	ADDITIVES USED	None
1/4 Hrs. after boring	7.5'	WELL INSTALLATION DEPTH	13.5'
__Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-05A



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 813280

BORING/WELL NO. 5A

DATE 12-1-89

CHIEF/UNIT KT/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Cement Bentonite Slurry

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 13.0 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE Stainless Steel Channel Pa

   SCREEN LENGTH 5.0

   SLOT-SIZE .010 LENGTH 5.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 6 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

CCJM ENVIRONMENTAL ENGINEERS & SCIENTISTS
3310 Eagle Park Drive, N.E., Suite #101
Grand Rapids, Michigan 49505
(616) 940-2007
FAX (616) 940-1603

Job No. 651-011-00(x)1
LOG OF TEST BORING NO. MW5A
Sheet 1 of 1
Project Maxwell Removal Action
Location Waukegan, Illinois

Date Completed 12-01-89
Hydrogeologist Jay Mark
Driller & Rig Type ETI - CME 550
Boring Method 6 1/4" - Hollow Stem Augers
Hole Plugged with See Below

GROUNDWATER:
Encountered @ ~6'
After Completion NA
After NA hrs.
Seepage NA
Boring Caved at NA

MONITOR WELL DATA:
Pipe/Type Stainless Steel - 2" diam
Length 2-5' + 1-2' + 1-1' = 13' total
Above Ground 3.1'
Cap Stainless Steel
Screen/Type Stainless 2" Channelpack
Size 5.0' & 2" diameter (ID)
Slot 10
Set @ 14.9 to 9.9
Backfilled 15 to 7.5 - Sand Pack
Bentonite Seal 7.5 to 5.3'
Grout/Type Cement/Bentonite
Depth 5.3 to 2 Cement to +0.5'
Protective Casing yes
Materials Cleaned Steamed
Development CCJM bailed 40 gallons, then pumped 255 gallons with centrifugal pump
Remarks Had to move boring 4 times due to presence of debris at ~ 8.0'

LEGEND:
Blow Counts/Blows per 6" without hammer = 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNR - Sample not recovered

Sample Type	REC	Blow Counts	Head OVA	Depth in Feet	Soil Description
					Light brown fine to medium Sand with trace of fine gravel No debris encountered
				5	
				~6.0	Water
				10	
				~12.0	
					Grey, fine to medium sand with trace of fine gravel No Debris encountered
				15	End of Boring @ 15.0'
				20	
				25	
				30	

Backfill Materials MW5A
1-bag Portland cement
3-bags Sand
2-buckets (5 gallon) Bentonite Pellets
1-bag Quick Gel
Also: used 4 bags portland and 1 bucket bentonite pellets to fill holes left from 3 previous borings

Permit # 140243

SMW-05A

LOG of TEST BORING

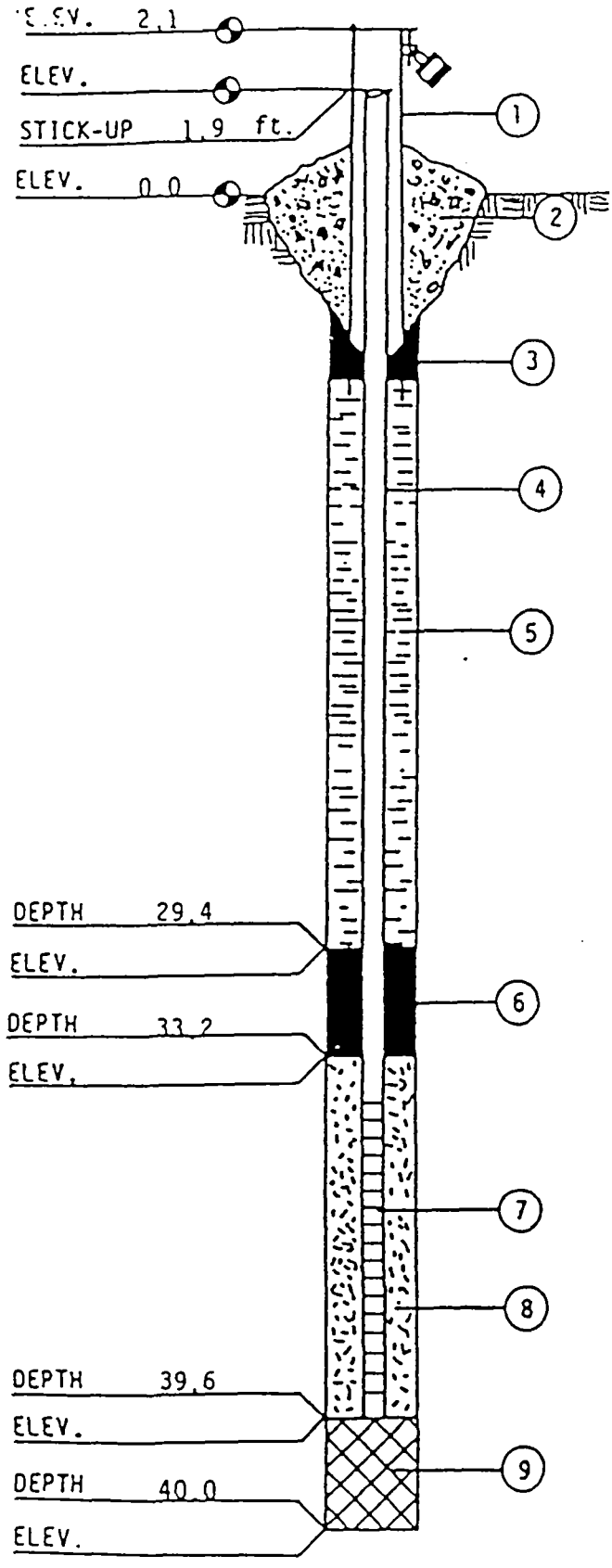
PROJECT NO.	813280	BORING No.	MW 5A
ROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
RIG	550	DATE STARTED	12-1-89
CHECKED BY	TCR	DATE COMPLETED	12-1-89

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	HNu TSF	REMARKS
				1	Black fine to coarse SAND, trace to little		
				2	fine Gravel		
				3			
				4	Brown fine to coarse SAND, trace of Silt		
				5			
				6			
				7			Auger refusal on 3 attempts
				8			at 7.0'
				9			
				10			
				11			
				12			
				13	Black fine to coarse SAND, trace of Silt		
				14			
				15			
				16	End of boring MW-7A @ 15.0'		
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	4.0'
While drilling	8.0'	ADDITIVES USED	None
1/4 Hrs. after boring		WELL INSTALLATION DEPTH	15.0'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-06



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-6

DATE 10-28-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 36.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-06

LOG OF BORING MW6

SHEET 1 OF 2

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-10000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Trainter	DATE STARTED: 10/28/88	DATE FINISHED: 10/28/88
DRILLING EQUIPMENT: Diedrich D 50		COMPLETION DEPTH: 40' BGS	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	OL; soft, dark gray black SILT, some sand, trace clay with plant rootlets		1								
			2								
	SP; loose, light brown, m-f SAND		3								
			4								
			5								
	SW; medium dense, brown, gravelly c-m SAND, trace cobbles moist		6						0	0	← water table
			7								
	SW; medium dense, dark gray gravelly, c-m SAND, trace cobbles wet		8								← dark gray sands - anoxic zone
			9								
			10								
			11								
			12								
			13								
			14								
	SW; dense, dark gray, gravelly c-m SAND, some small cobbles wet		15						0.2	0	0.5 ppm at auger opening
			16								
			17								
			18								
			19								

C.C. JOHNSON & MALHOTRA, P.C.

SMW-06

LOG OF BORING MW6

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6IN	CORE RECOVERY %	RQD	READINGS (PPM) SAMPLE	AMB. AIR	REMARKS
	SW; medium dense, dark brown C-f SAND, some f gravel, trace silt saturated		21								
			22								
			23						0	0	
	SW; medium dense, dark brown C-f SAND, trace f gravel + silt saturated		24								
			25								
	SW; medium dense, dark gray brown C-f SAND, some f gravel, saturated		26								
			27								
			28								
	SW; medium dense, dark gray brown C-f SAND, some f gravel, saturated		29						0	0	1.0-2.5 PPM at auger opening
			30								
			31								
			32								
			33								
	SW; medium dense, dull gray brown, C-f SAND, trace gravel, saturated		34								
			35								
			36								
			37								
			38								
			39								6 ft of Sand have washed out tricone NO split spoon
	silt/clay Till		40								
	Bottom of Boring 40'		41								Evidence of Till
			42								- Drillability
			43								- color and grain size of bit of wash water
			44								- clay in the auger teeth of the bent auger
			45								

LOG of TEST BORING

SMW-06

PROJECT NO.	812585	BORING No.	MW-6
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	3.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Dark brown fine SAND, some organic material		
				2	little Silt		
				3			
				4	Brown fine SAND, trace of Silt		
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21	Little coarse SAND		
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:	--	DRILL CASING INSTALLED	None
While drilling	7.5'	ADDITIVES USED	None
1/4 Hrs. after boring	6.0'	WELL INSTALLATION DEPTH	39.6'
____Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

LOG of TEST BORING

SMW-06

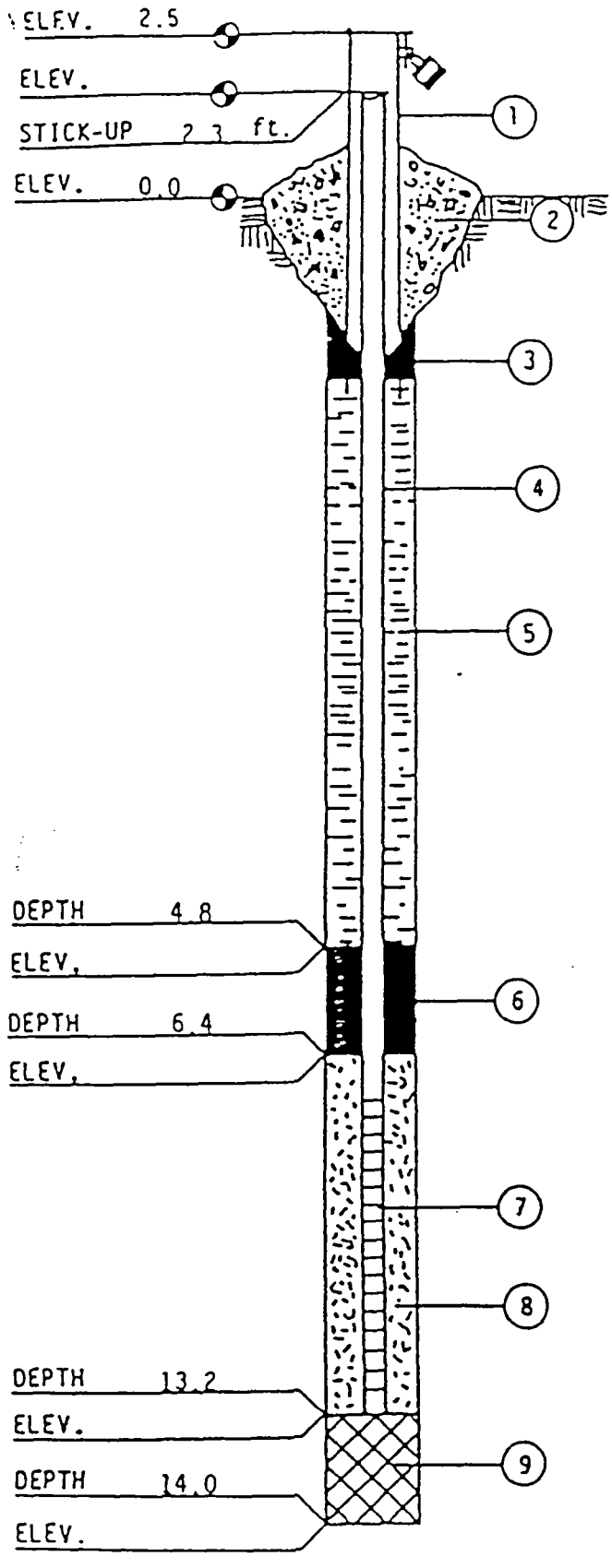
PROJECT NO.	812585	BORING No.	MW-6
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				35			
				36			
				37	Little fine GRAVEL		
				38			
				39	Dense gray SILT, little fine Gravel		Strata change at 39.0'
				40			
				41	End of Boring MW-6 @ 40.0'		
				42			
				43			
				44			
				45			
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	7.5'	ADDITIVES USED	None
1/4 Hrs. after boring	6.0'	WELL INSTALLATION DEPTH	39.6'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-07



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-7

DATE 10-28-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-07

LOG OF BORING MW7

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0151-0001-1000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Tanner	DATE STARTED: 10/28/88	DATE FINISHED: 10/28/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 14' BGS	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR
CASING HAMMER / WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Hedlund	
SAMPLER HAMMER / WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	OL; soft, dark gray black SILT, some sand, trace clay, rootlets		1								
	CL; firm, dull gray white CLAY FILL, some sand, f. brown		2						0	0	
			3								
			4								
	SP; loose, light brown c-m SAND, trace f gravel moist		5								
			6								← water table
	SW; medium dense, light brown c-m SAND, some gravel wet		7								
			8						0	0	
	SW; medium dense brown c-f SAND, trace gravel saturated		9								
			10								
			11								
	SW; medium dense, brown c-f SAND, some gravel saturated		12								
	SW, dense, brown gravelly c-m SAND, trace f sand, saturated		13						0	0	
			14								
	Bottom of Boring 14.0'		15								
			16								
			17								
			18								
			19								

SMW-07

LOG of TEST BORING

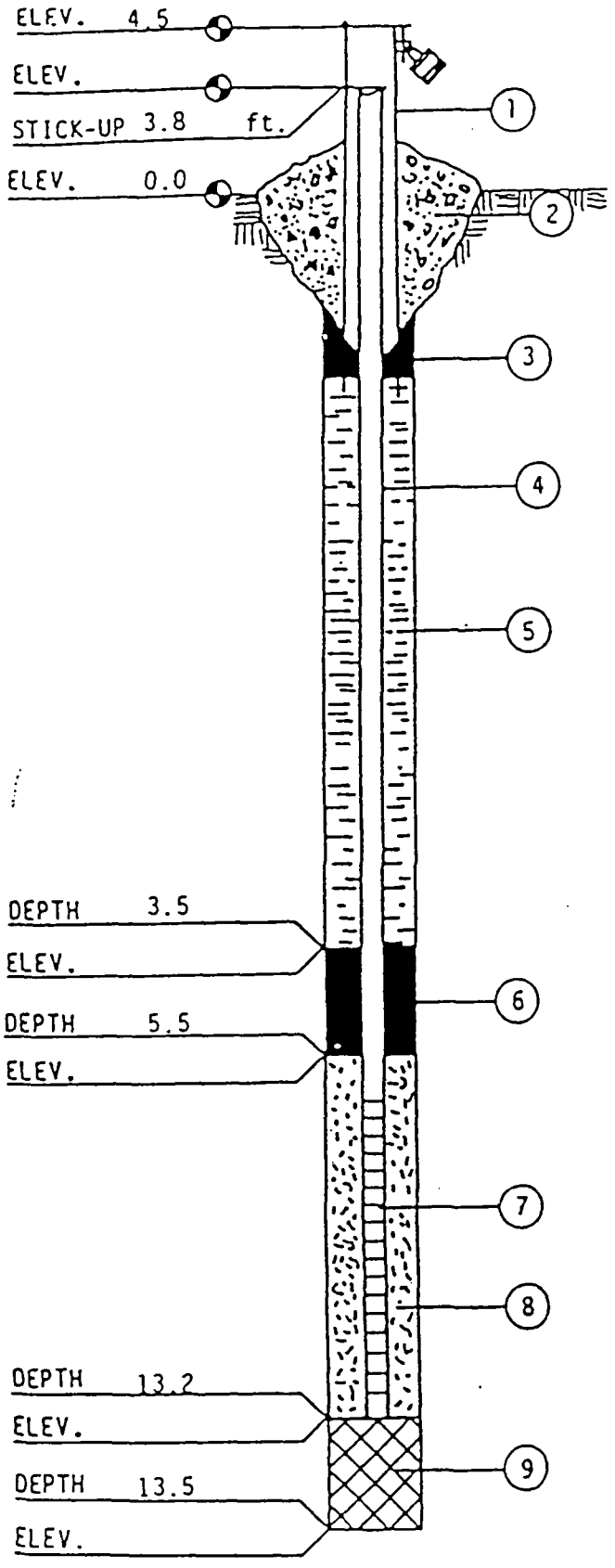
PROJECT NO.	812585	BORING No.	MW-7
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silty SAND, little Organic Material		
				2			
				3	Black Silty SAND, some Trash		
				4			
				5	Brown fine SAND, Trace of Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15	End of boring MW-7 @ 14.0'		
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:			
While drilling	6.5'	DRILL CASING INSTALLED	None
1/4 Hrs. after boring	5.8'	ADDITIVES USED	None
___Hrs. after boring		WELL INSTALLATION DEPTH	13.2
Cave in depth		ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-07A



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 813280

BORING/WELL NO. MW 7A

DATE 11-30-89

CHIEF/UNIT KT/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Cement Bentonite Grout

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 12.0 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Grout

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE Stainless Steel Channel Pack

   SCREEN LENGTH 5.0

   SLOT-SIZE .010 LENGTH 5.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 6 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

SMW-07A

CCJM ENVIRONMENTAL ENGINEERS & SCIENTISTS
3310 Eagle Park Drive, N.E., Suite #101
Grand Rapids, Michigan 49505
(616) 940-2007
FAX (616) 940-1603

Job No. 651-011-00001
LOG OF TEST BORING NO. MW 7A
Sheet 1 of 1
Project Manville Remedial Action
Location Waukegan Illinois

Date Completed 11-30-89
Hydrogeologist Joe Mark
Driller & Rig Type ETI - CME 550
Boring Method 6 1/4" Hollow Stem Auger
Hole Plugged with See below

GROUNDWATER:
Encountered @ ~ 7.5'
After Completion NA
After NA hrs.
Seepage NA
Boring Caved at NA

MONITOR WELL DATA:
Pipe/Type 2" Stainless Steel
Length 1-10' + 1-2' = 12' total
Above Ground 3.8'
Cap Stainless Steel
Screen/Type 2" Stainless, Channel Back
Size 5.0' x 2" diameter (ID)
Slot 10
Set @ 13.2' to 8.2'
Backfilled 13.2 to 5.5 - Sand Back
Bentonite Seal 5.5 to 3.5'
Grout/Type Cement / Bentonite
Depth 3.5 to 1.5, concrete to 0.5'
Protective Casing yes
Materials Cleaned Steam
Development 30 gallons removed w/ DSC pump by ETI - Water very clear (CCJM - Bailed 5 gallons then pumped 300 gallons
Remarks

LEGEND:
Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNA - Sample not recovered

Sample Type	REC	Blow Count	Initial OVA	Depth in Feet	Soil Description
					Black, fine to medium Sand. Fill Material (?)
				4.5'	
				5	Brown fine to Medium Sand
				7.5'	Water
				10	
				13.2'	
					End of Boring
				15	
					Backfill Materials
				20	1 - bag portland cement
					4 - bags filter Sand
					2 - buckets (5 gallon) Bentonite Pellets
				25	1 - bag Quick Gel
				30	

Permit # 140-44

SMW-07A

LOG of TEST BORING

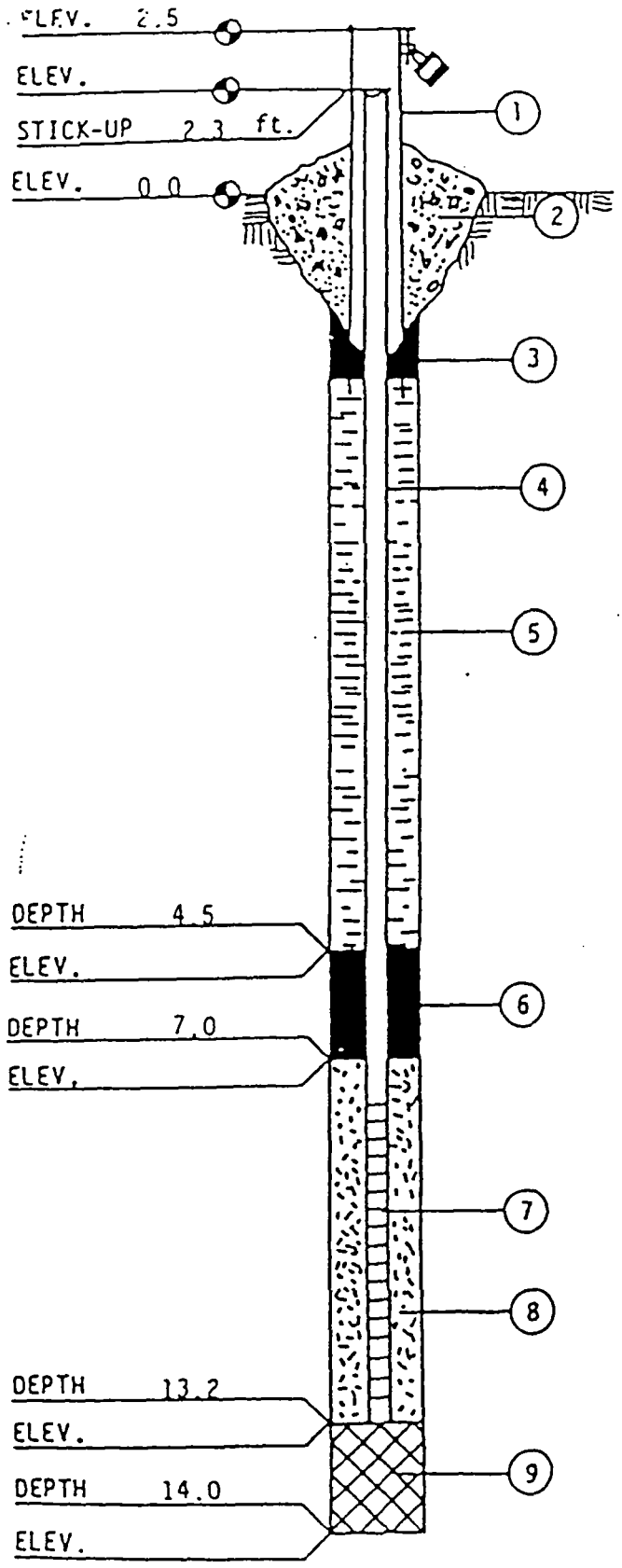
PROJECT NO.	813280	BORING No.	MW 7A
PROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
RIG	550	DATE STARTED	11-30-89
CHECKED BY	TCR	DATE COMPLETED	11-30-89

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	HNu TSF	REMARKS
				1	Black fine to coarse Sandy SILT, trace of		
				2	Garbage		
				3			
				4			
				5	Brown fine to coarse SAND, trace of Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14	End of boring 13.5'		
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	4.0'
While drilling		ADDITIVES USED	None
/4 Hrs. after boring		WELL INSTALLATION DEPTH	13.5'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-08



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-8

DATE 10-28-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-08

LOG OF BORING MW 8

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan, IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-1000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Trinker	DATE STARTED: 10-28-88	DATE FINISHED: 10-28-88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 14' BGS	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon			
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"	INSPECTOR: David T Heidkamp	

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6 IN	CORE RECOVERY %	CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	ML; black silty FILL with chunks of tile		1								
			2						0	0	
			3								
	— — — — — —		4								
	SW; loose, brown c-m SAND trace gravel, moist		5								
			6								← water table
			7						0	0	
			8								
	SW; loose, brown c-m SAND trace gravel, wet		9								
			10								
			11								
	SW, medium dense, brown c-m SAND, some gravel wet		12						0	0	
			13								
	Bottom of Boring 14.0'		14								
			15								
			16								
			17								
			18								
			19								

SMW-08

LOG of TEST BORING

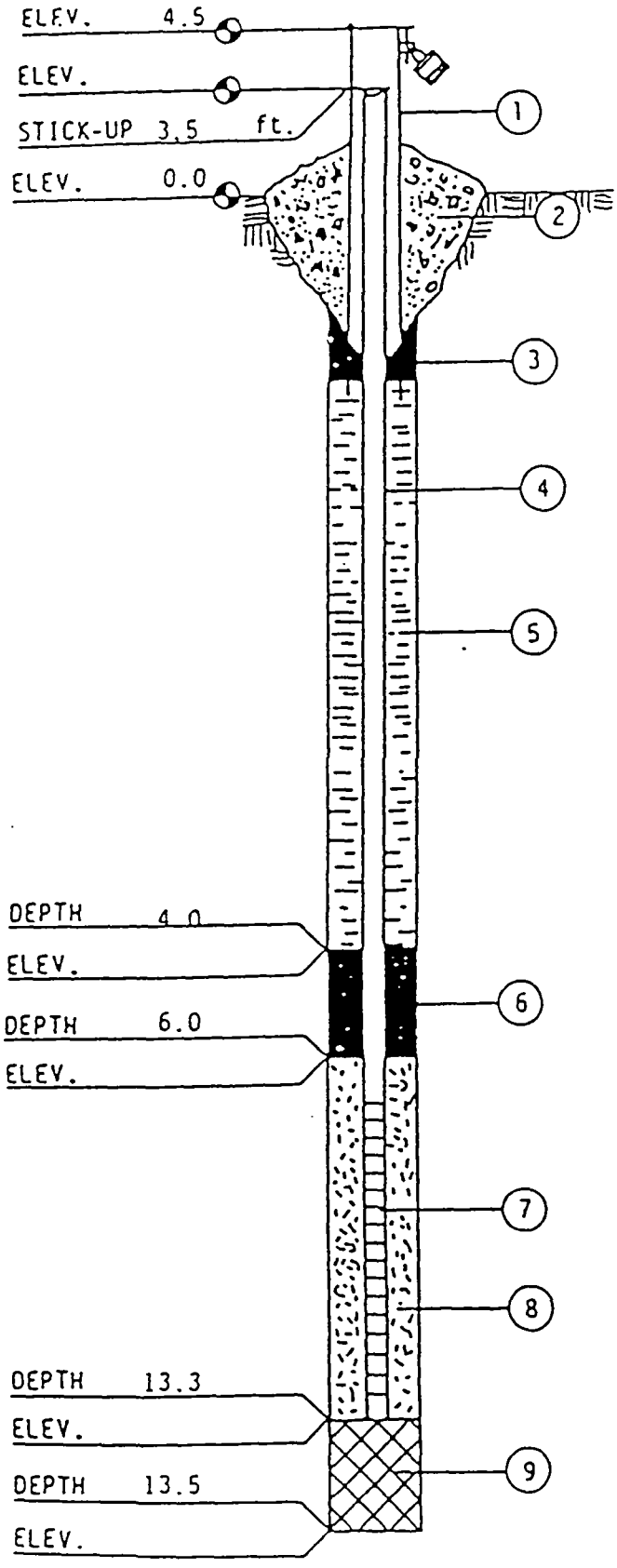
PROJECT NO.	812585	BORING No.	MW-9
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Jonnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	3.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silt SAND, some Trash		
				2			
				3			
				4			
				5	Brown fine SAND		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15	*End of Boring MW-9 @ 14.0'*		
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	7.0'	ADDITIVES USED	None
24 hrs. after boring	5.8'	WELL INSTALLATION DEPTH	13.2
____Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-08A



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 813280

BORING/WELL NO. MW 8A

DATE 11-30-89

CHIEF/UNIT KT/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Cement Bentonite Grout

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 12.0 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Grout

   HOW INSTALLED TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE Stainless Steel Channel Pack

   SCREEN LENGTH 5.0

   SLOT-SIZE .010 LENGTH 5.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 6 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

CCJM ENVIRONMENTAL ENGINEERS & SCIENTISTS
3310 Eagle Park Drive, N.E., Suite #101
Grand Rapids, Michigan 49505
(616) 940-2007
FAX (616) 940-1603

SMW-08A

Job No. 651-011-00001
LOG OF TEST BORING NO. MW 8A
Sheet 1 of 1
Project Maxville Remedial Action
Location Waukegan, Illinois

Date Completed 11-30-89
Hydrogeologist Joe Mark
Driller & Rig Type ETI - CME 550
Boring Method 6 1/4" Hollow Stem Augers
Hole Plugged with See Below

GROUNDWATER:
Encountered @ ≈ 7.0'
After Completion no
After no hrs.
Seepage no
Boring Caved at no

MONITOR WELL DATA:
Pipe/Type 2" Stainless Steel
Length 1-10' + 1-2' = 12' total
Above Ground 3.5'
Cap Stainless Steel
Screen/Type 2" Stainless Channel Pack
Size 5.0' x 2" diameter (ID)
Slot 10
Set @ 13.3 to 8.3
Backfilled 13.3 to 6.0 - Sand Pack
Bentonite Seal 6.0' to 4.0'
Grout/Type Cement/Bentonite
Depth 4.0' to 2.0', Concrete to 0.5'
Protective Casing yes
Materials Cleaned Steam
Development 30 gallons removed w/ 0X pump by ETI - water very clear (CCJM-Bailed 5 gallons, then pumped 300 gallons.
Remarks

LEGEND:
Blow Count/Blows per 6" w/140# hammer x 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sample
ST - Shelby Tube Sample
SNA - Sample not recovered

Sample Type	REC	Blow Count	Initial OVA	Depth in Feet	Soil Description
					Black, Fine to Medium Sand with trace of debris Fill Material (?)
				3.5	
					Brown, fine to medium sand with trace of fine gravel
				5	
				7.0	Water
				10	Sediments are slightly greyer with more fines
				13.5	
					End of Boring
				15	
					Backfill Materials
				20	1 - bag portland cement
					4 - bags sand
					2 - buckets (5 gallons) Bentonite Pellets
					1 - bag Quick Gel
				25	
				30	

Permit # 140245

SMW-08A

LOG of TEST BORING

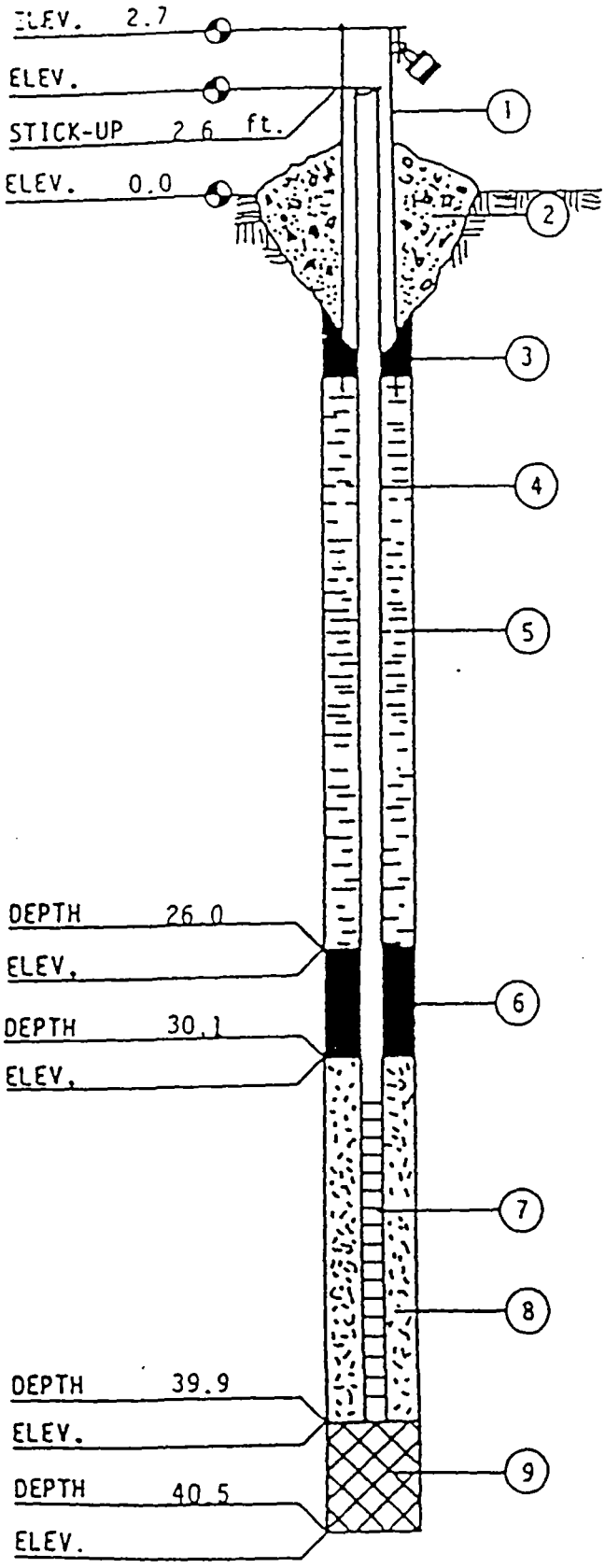
CT NO.	813280	BORING No.	MW 8A
PROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
LOG	SSO	DATE STARTED	11-30-89
CHECKED BY	TCR	DATE COMPLETED	11-30-89

SP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	HNu TSF	REMARKS
				1	Black fine to coarse Sandy SILT, trace of		
				2	Garbage		
				3			
				4			
				5	Brown fine to coarse SAND, trace of Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14	End of boring 13.5'		
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

WL. MEASUREMENTS:		DRILL CASING INSTALLED	4.0'
While drilling		ADDITIVES USED	None
Hrs. after boring		WELL INSTALLATION DEPTH	13.5'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-09



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-9

DATE 10-28-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 37.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-09

LOG OF BORING MW9

SHEET 1 OF 2

PROJECT AND LOCATION: Johns-Manville Disposal Area Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-001-100 C
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Tanker	DATE STARTED: 10/28/88	DATE FINISHED: 10/28/88
DRILLING EQUIPMENT: Diedrich D50		COMPLETION DEPTH: 40.5'	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6 IN	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	ML; black silty FILL. with chunks of tile		1						0	0	
			2								
			3								
			4								
	SW; loose, brown c-m SAND trace gravel, moist		5								← water table
			6								
			7								
			8						0	0	
	SW; loose, brown c-m SAND trace gravel, wet		9								
			10								
			11								
			12								
			13								
	SW; medium dense, brown c-m SAND, some gravel wet		14						0	0	
			15								
			16								
	SW; medium dense, gray c-f SAND, trace f. gravel wet		17								
			18								
			19								

C.C. JOHNSON & MALHOTRA, P.C.

SMW-09

LOG OF BORING MW 7

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN	CORE RECOVERY, %	CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	SW; medium dense, brownish gray C-f SAND, trace gravel, saturated		21, 22, 23, 24, 25						0	0	
	SW; medium dense, brownish gray C-f SAND, trace gravel, saturated		26, 27, 28, 29, 30						0	0	
	SW; loose, brownish gray m-vf SAND trace c sand, f gravel, and silt, saturated		31, 32, 33, 34, 35, 36						0	0	
	SP; loose, brownish gray f-vf SAND, some silt, trace c-m sand, saturated		37, 38, 39						0	0	7' sand heave wash out tricone
	silt/clay Till		40								
	Bottom of Boring 40.5'		41, 42, 43, 44, 45								

Evidence file

- drillability
- color and grain size of last of wash water
- clay on the Auger kelly of lead Auger

SMW-09

PROJECT NO.	812585	BORING No.	MW-9
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Dark brown Silty fine SAND, some Garbage		
				2			
				3			
				4			
				5			
				6	Brown fine SAND, trace of Silt		
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35	Very fine SAND		

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
while drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring		WELL INSTALLATION DEPTH	39.9'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

LOG TEST BORING

Smw-09

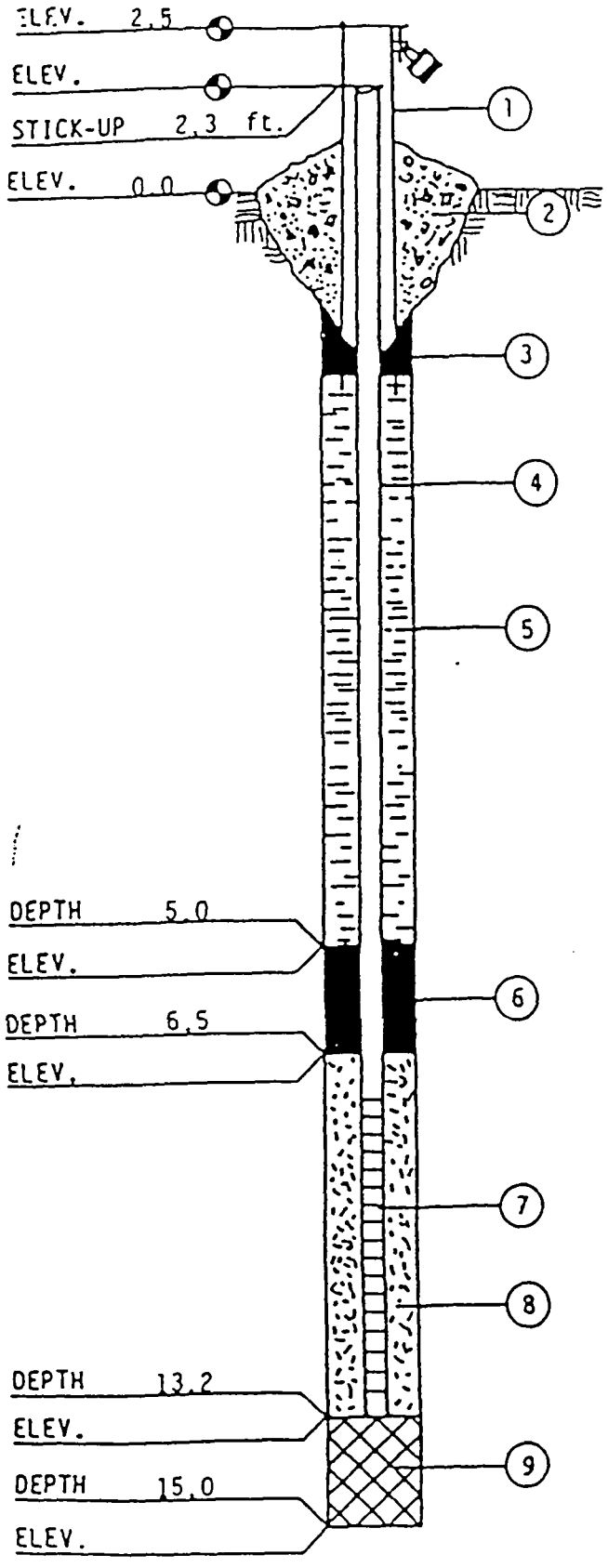
PROJECT NO.	812585	BORING No.	MW-9
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
'JECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-28-88
CHECKED BY	TCR	DATE COMPLETED	10-28-88

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				35			
				36			
				37			
				38			
				39	Hard Gray SILT, trace of fine Gravel		
				40			
				41	End of boring MW-9 @ 40.5'		
				42			
				43			
				44			
				45			
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring		WELL INSTALLATION DEPTH	39.9'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-10



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-10

DATE 10-29-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-10

LOG OF BORING MW 10

SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-000 1-100000
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Tainter	DATE STARTED: 10/29/88	DATE FINISHED: 10/29/88
DRILLING EQUIPMENT: Diedrich D50 track mounted		COMPLETION DEPTH: 15' BGS	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST / UNDIST / CORE	
CASING		WATER LEVEL (FT): FIRST / COMPL. / 24 HR.	
CASING HAMMER / WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Heidkamp	
SAMPLER HAMMER / WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6 IN.	CORE RECOVERY %	RQD	READINGS (PPM) SAMPLE	AMB. AIR	REMARKS
	SM; medium dense, black gray silty f SAND, with rocks, debris and organic matter		1, 2, 3								
	SW; medium dense, light brown c-f SAND, some f. gravel moist		4, 5						0	0	
			6								← water table
	SP, loose, dark blackish gray, m-f SAND, saturated		7, 8, 9, 10								
	SW; medium dense, dark blackish gray, c-m SAND, some f. gravel wet		11, 12						0	0	0.5 at Auger opening
	SW; medium dense, dark blackish gray, c-f SAND, trace gravel wet		13, 14, 15								
	Bottom of Boring 15'		16, 17, 18, 19								

LOG OF TEST BORING

SMW-10

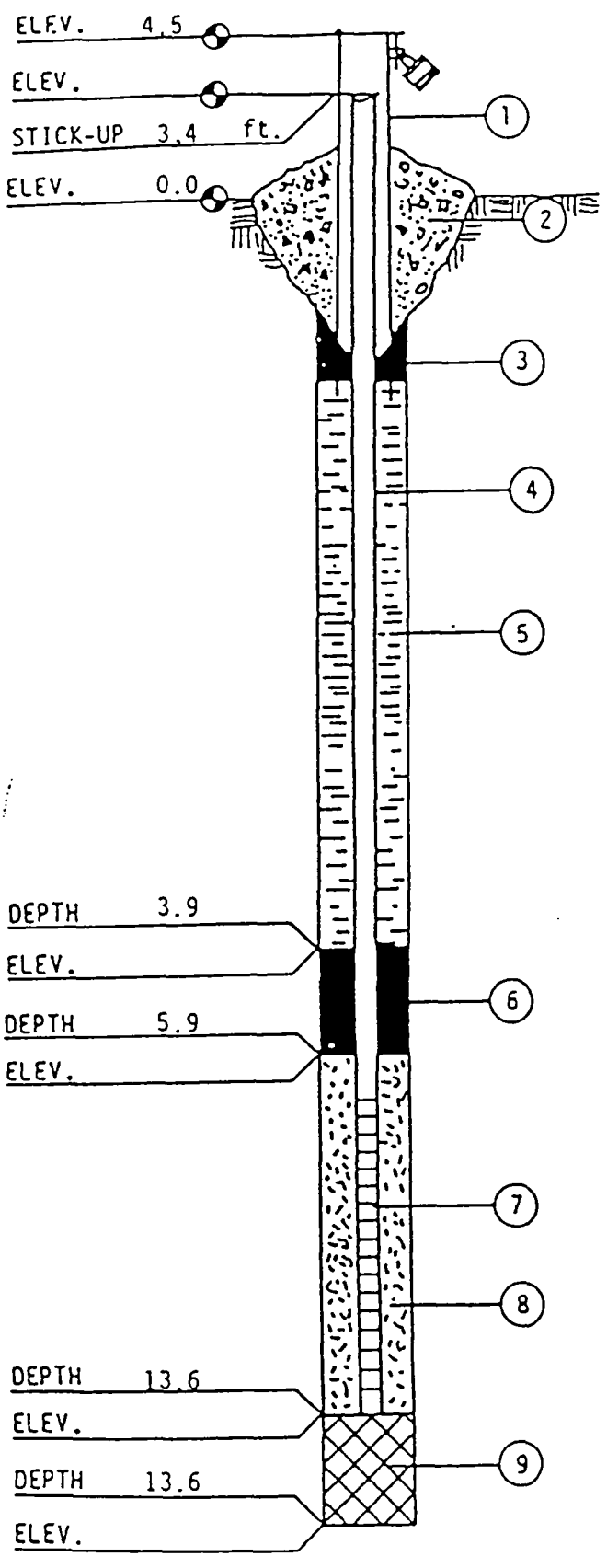
PROJECT NO.	812585	BORING NO.	MW-10
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-29-88
CHECKED BY	TCR	DATE COMPLETED	10-29-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silt SAND, some Garbage		
				2			
				3			
				4			
				5	Brown fine SAND, little Silt		
				6			
				7	Changes to Dark Brown		
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16	End of Boring MW-10 @ 15.0'		
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring	6.2'	WELL INSTALLATION DEPTH	13.2'
____Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-10A



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 813280

BORING/WELL NO. MW 10A

DATE 11-30-89

CHIEF/UNIT KT 9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Cement Bentonite Slurry

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 12.0 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Grout

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE Stainless Steel Channel Pack

   SCREEN LENGTH 5.0

   SLOT-SIZE .010 LENGTH 5.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL None

10. DRILLING METHOD 6 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

CCJM ENVIRONMENTAL ENGINEERS & SCIENTISTS
3310 Eagle Park Drive, N.E., Suite #101
Grand Rapids, Michigan 49505
(616) 940-2007
FAX (616) 940-1603

Job No. 651-011-00001
LOG OF TEST BORING NO. MW 10A
Sheet 1 of 1
Project Mostile Remedial Action
Location Waukegan, Illinois

Date Completed 11-30-89
Hydrogeologist Joe Mark
Driller & Rig Type ETI - CME 550
Boring Method 6 1/4" Hollow Stem Augers
Hole Plugged with See Below

GROUNDWATER:
Encountered @ ~ 7.0'
After Completion NA
After NA hrs.
Seepage NA
Boring Caved at NA

MONITOR WELL DATA:
Pipe/Type 2" Stainless Steel
Length 1-10' + 1-2' = 12' total
Above Ground 3.4'
Cap Stainless Steel
Screen/Type 2" Stainless Channel Pipe
Size 5.0' x 2" diameter (ID)
Slot 10
Set @ 13.6 to 8.6
Backfilled 13.6 to 5.9 - Sand Pack
Bentonite Seal 5.9' to 3.9'
Grout/Type Cement/Bentonite
Depth 3.9 to 2.0 Cement to +0.5'
Protective Casing yes
Materials Cleaned Steam
Development 30 gallons removed w/ PX pump by ETI - Water very clear
CCJM - Bailed 3 gallons, pumped 240 gallons
Remarks Had to move rig 3 times and restart boring due to presence of debris at ~ 3.0'

LEGEND:
Blow Counts/Blows per 6" w/1400 hammer - 30" drop
SS - 2" Split Spoon Sampler
SS - Brass Liner Sampler
ST - Shelby Tube Sampler
SNR - Sample not recovered

Permit # 140246

Sample Type	Blow Counts	Blows per 6"	Recovery	Depth in Feet	Soil Description
					SMW-10A
					Greyish, fine to medium Sand - Trace of fine gravel
				5	
				7.0	Water
				10	
				13.6	End of Boring
				15	
				20	Backfill Materials 2 - bags portland Cement 4 - bags Sand 2 - Buckets (5 gallon) Bentonite Pellets 1 - bag Quick Gel
				25	
				30	

SMW-10A

LOG of TEST BORING

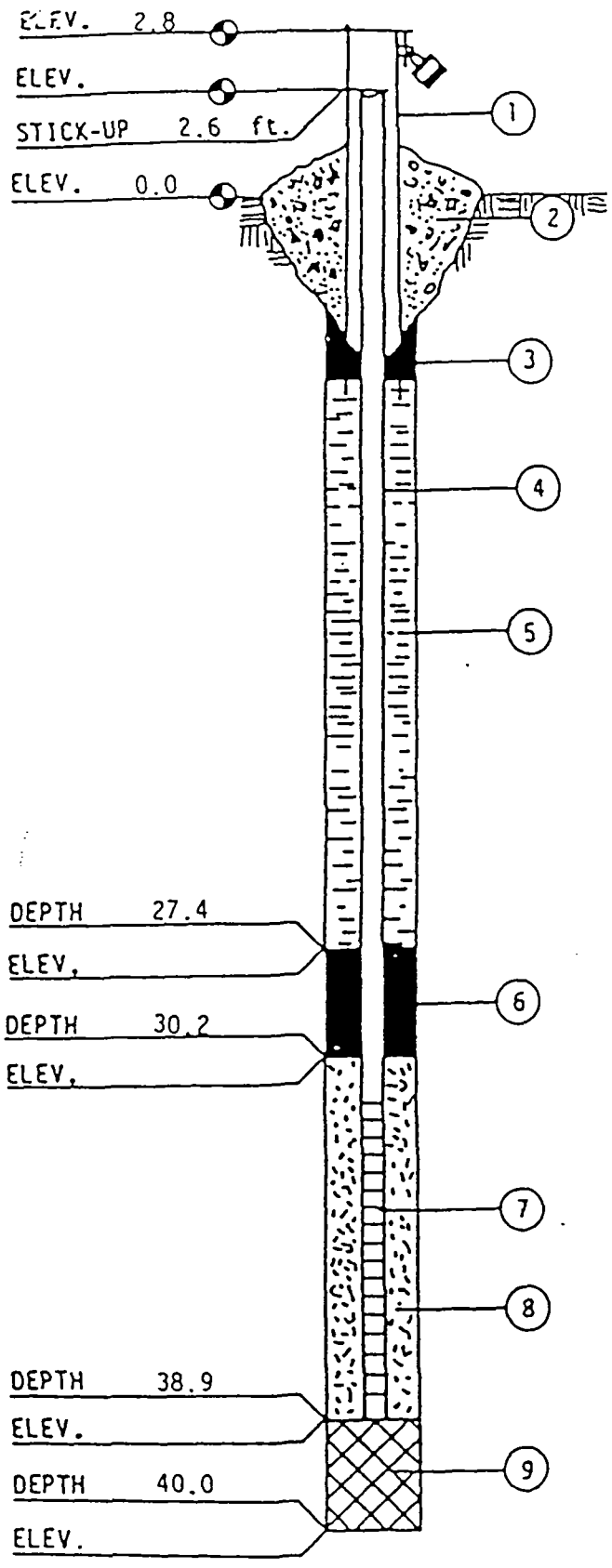
PROJECT NO.	813280	BORING No.	MW 10-A
PROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
RIG	550	DATE STARTED	11-30-89
CHECKED BY	TCR	DATE COMPLETED	11-30-89

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	HNu TSF	REMARKS
				1	Black fine to coarse Sandy SILT, trace of		
				2	Garbage		
				3			
				4			
				5	Brown fine to coarse SAND, trace of Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14	End of boring 13.5'		
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	4.0'
While drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring		WELL INSTALLATION DEPTH	13.5'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-11



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-11

DATE 10-29-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 36.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-11

LOG OF BORING MW11

SHEET 1 OF 2

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-[illegible]
DRILLING AGENCY: Exploration Technology Inc	FOREMAN: Ken Tanner	DATE STARTED: 10/29/88	DATE FINISHED: 10/29/88
DRILLING EQUIPMENT: Deitrich D 50		COMPLETION DEPTH: 40.0'	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon		INSPECTOR: David T Heilland	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES: TYPE NUMBER	RECOV. FT	PENETR. RESIST BL/6 IN	R. CORE: RECOVERY %	RQD	READINGS (PPM): SAMPLE	AMB. AIR	REMARKS
	SM; medium dense, black gray silty C SAND, with rocks, debris, and organic matter		1, 2								
			3								
	SW; medium dense, light brown C-f SAND, some f gravel moist		4, 5						0	0	
			6, 7								
	SP; loose, dark blackish gray, m-f SAND, saturated		8, 9								
			10								
	SW, medium dense, dark blackish gray, c-m SAND some f gravel wet		11, 12						0	0	0.2 at Auger opening
			13, 14								
	SW, medium dense, dark blackish gray, c-f SAND trace f gravel, wet		15, 16, 17								
			18, 19								

C.C. JOHNSON & MALHOTRA, P.C.

SMW-11

LOG OF BORING MW 11

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN	CORE RECOVERY %	CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	SP; loose, dull gray f-vf SAND trace f gravel + c-m sand, saturated		21								
			22								
			23								
			24								
	SP; loose, dull gray f-vf SAND trace silt saturated		25								
			26								
			27								
			28								
			29								
	"		30								
			31								
			32								
			33								
	"		34								
			35								
			36								
			37								
	"		38								7' sand have wash with tricone
	— — silt/clay till — — —		39								
	Bottom of Boring 40'		40								Evidence of Till
			41								- Drillability
			42								- color of sediment brought up during tricone wash
			43								
			44								- clay on the teeth of the hollow auger
			45								

LOG OF TEST BORING

SMW-11

PROJECT NO.	812585	BORING No.	MW-11
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-29-88
CHECKED BY	TCR	DATE COMPLETED	10-29-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silty SAND, some Trash		
				2			
				3			
				4			
				5	Brown fine SAND, little Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.5'	ADDITIVES USED	None
1/4 Hrs. after boring	6.1'	WELL INSTALLATION DEPTH	38.9'
_Hrs. after boring		ABANDONMENT PROCEDURE	NA
/e in depth			

EXPLORATION TECHNOLOGY INC.

SMW-11

LOG of TEST BORING

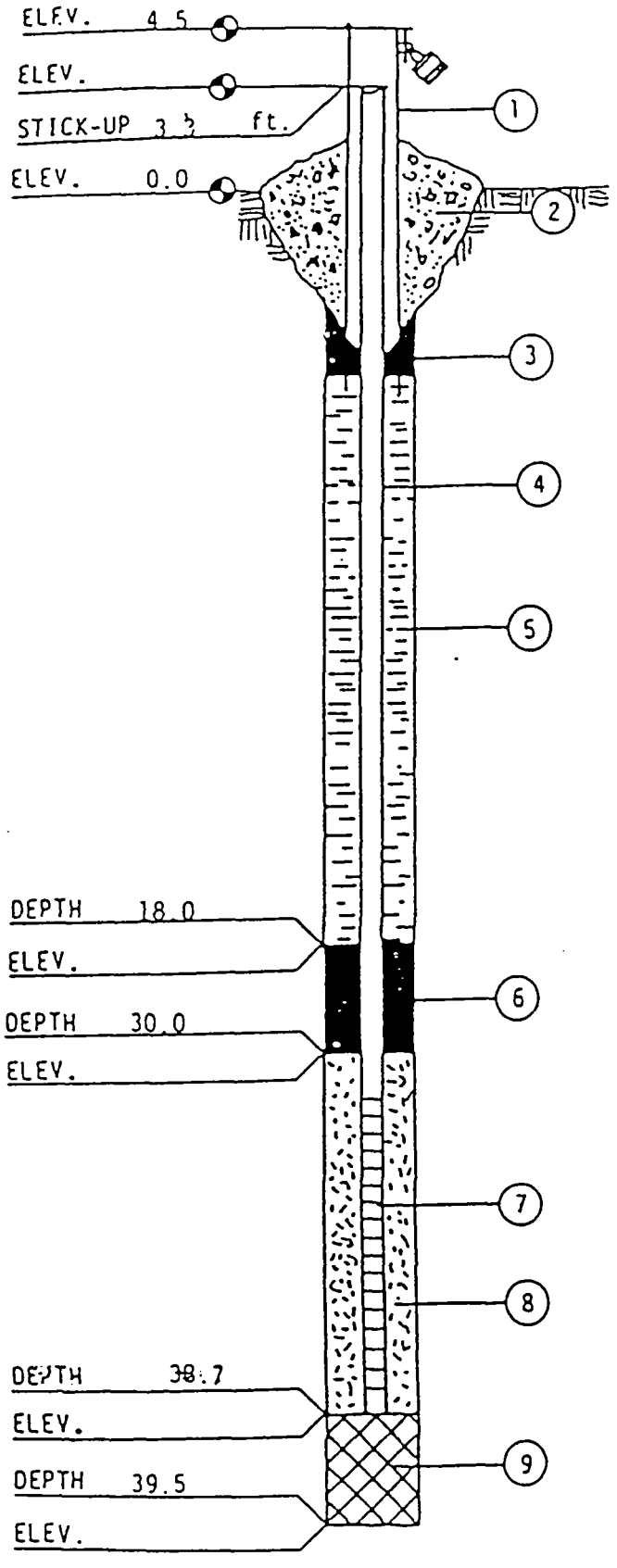
PROJECT NO.	812585	BORING No.	MW-11
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	3.0"
RIG	9920	DATE STARTED	10-29-88
CHECKED BY	TCR	DATE COMPLETED	10-29-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				35			
				36			
				37			
				38			Strata Change @ 38.5'
				39	Gray SILT, trace of fine Gravel		
				40			
				41	End of boring MW-11 @ 40.0'		
				42			
				43			
				44			
				45			
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.5'	ADDITIVES USED	None
24 Hrs. after boring	6.1'	WELL INSTALLATION DEPTH	38.9'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-11A



MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 813210

BORING/WELL NO. MW 11A

DATE 11-29-89

CHIEF/UNIT KT/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Cement Bentonite Slurry

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 37.0 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Grou

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Slurry

7. SCREEN TYPE Stainless Steel Channel Pac

   SCREEN LENGTH 5.0

   SLOT-SIZE .010 LENGTH 5.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 6 1/4" HSA

11. ADDITIVES USED (IF ANY)
    Clear Water

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

EXPLORATION TECHNOLOGY INC.

CCJM ENVIRONMENTAL ENGINEERS & SCIENTISTS

3310 Eagle Park Drive, N.E., Suite #101
Grand Rapids, Michigan 49505
(616) 940-2007
FAX (616) 940-1603

Job No. 651-011-00001

LOG OF TEST BORING NO. MW 11A

Sheet 1 of 2

Project Maxville Remedial Action

Location Waukegan, Illinois

Date Completed 11-30-89

Hydrogeologist Joe Mack

Driller & Rig Type ETI - CME 550

Boring Method 6¼" Hollow Stem Augers

Hole Plugged with See Below

GROUNDWATER:

Encountered @ ~ 6.5'

After Completion NA

After NA hrs.

Seepage NA

Boring Caved at NA

MONITOR WELL DATA:

Pipe/Type 2" Stainless Steel

Length 3-10' + 1-5' + 1-2' = 37' total

Above Ground 3.3

Cap Stainless steel

Screen/Type Stainless 2" Channel Pack

Size 5.0' x 2" diameter (ID)

Slot 10

Set @ 38.7 to 33.7

Backfilled 38.7 to 30.0 Sandpack

Bentonite Seal 30.0' to 18.0'

Grout/Type Cement/Bentonite

Depth 18.0' to 2.0 Concrete to +0.5'

Protective Casing Yes

Materials Cleaned Steam

Development 45 gallons removed w/Bailer pump by ETI - Waterway Clean

Remarks

LEGEND:
Blow Count/Blows per 6" w/140# hammer & 30" drop
SS - 2" Split Spoon Sampler
LS - Brass Liner Sampler
ST - Shelby Tube Sample
SNR - Sample not recovered

Permit # 140247

SMW-11A

Sample Type	REC	Blow Count	Head OVA	Depth in Feet	Soil Description
					Grey. Fine to medium sand with trace of black flecks
				5	
				6.5'	Water
				10	
				15	
				20	
				23'	
					Grey. fine to medium sand with a trace of silt.
				25	
				30	

SMW-11A

LOG of TEST BORING

PROJECT NO.	813280	BORING No.	MW 11-A
PROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
RIG	550	DATE STARTED	11-28-89
CHECKED BY	TCR	DATE COMPLETED	11-28-89

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	HNu TSF	REMARKS
				1	Brown fine to medium SAND, trace of Silt,		
				2	little Garbage		
				3			
				4	Brown fine to coarse SAND, trace of little		
				5	Silt		
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23	Very fine SAND		
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	4.0'
While drilling	6.0'	ADDITIVES USED	None
1/4 Hrs. after boring	5.7'	WELL INSTALLATION DEPTH	39.5'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-11A

LOG of TEST BORING

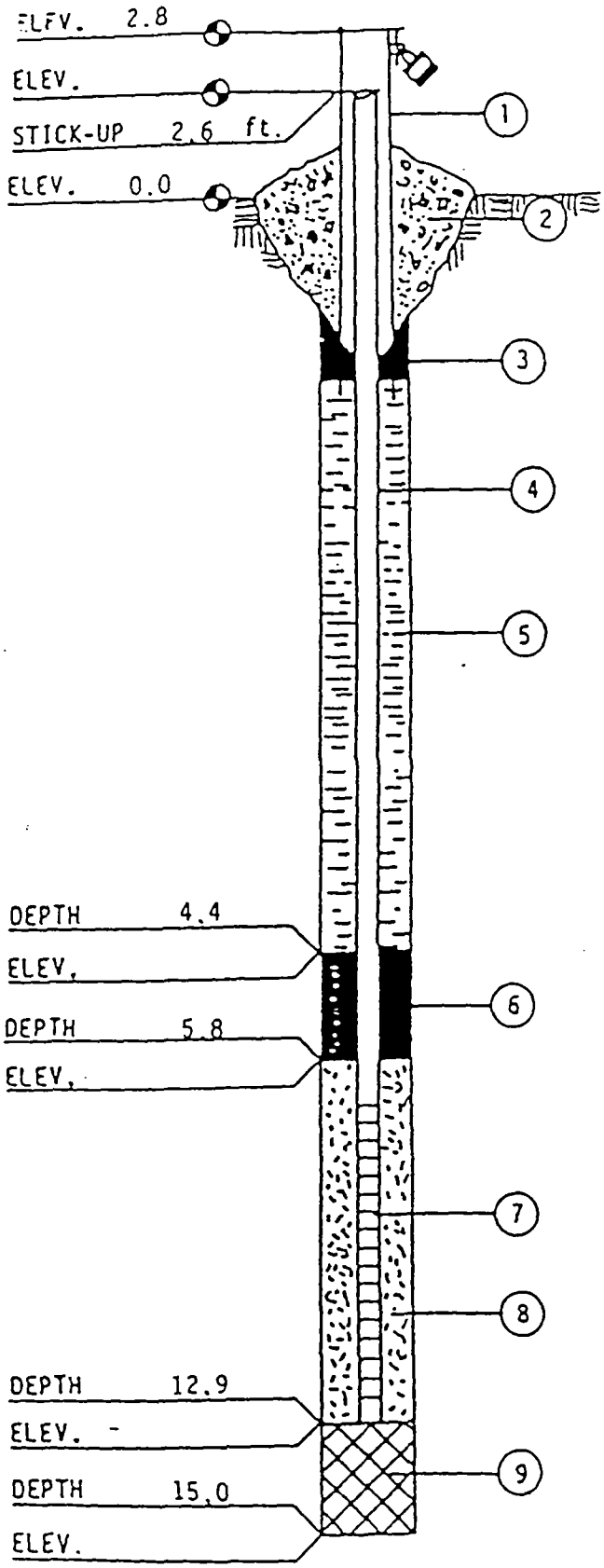
PROJECT NO.	813280	BORING No.	MW 11-A
PROJECT NAME	Manville Corporation	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra Inc.	DRILL METHOD	Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	10.0"
RIG	550	DATE STARTED	11-28-89
CHECKED BY	TCR	DATE COMPLETED	11-28-89

SMP NO.	MOIS TURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				36			
				37			
				38			
				39			
				40	End of boring MW-11A @ 39.5'		
				41			
				42			
				43			
				44			
				45			
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			
				70			

W.L. MEASUREMENTS:			
While drilling	6.0'	DRILL CASING INSTALLED	4.0'
1/4 Hrs. after boring	5.7'	ADDITIVES USED	None
___Hrs. after boring		WELL INSTALLATION DEPTH	39.5'
Cave in depth		ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-12



XPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-12

DATE 10-29-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 10.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

SMW-12

LOG OF BORING MW 12 SHEET 1 OF 1

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-1000
DRILLING AGENCY: Exploration Technologies INC	FOREMAN: Ken Turner	DATE STARTED: 10/29/88	DATE FINISHED: 10/29/88
DRILLING EQUIPMENT: Diedrich D-50		COMPLETION DEPTH: 15.0'	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR
CASING HAMMER: WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER: 2' x " split spoon		INSPECTOR: David T Hidlan	
SAMPLER HAMMER: WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6 IN	CORE RECOVERY %	RQD	READINGS (PPM) SAMPLE	AMB. AIR	REMARKS
	SM; medium dense, black silty SAND, some gravel (FILL)		1, 2								
			3								
	SP; loose, light gray brown m-f SAND, trace gravel, moist		4, 5, 6								← water table
	SP; loose, dull gray brown m-f SAND, trace gravel, wet		7, 8, 9, 10, 11								
	SP; loose, gray, m-f SAND trace f gravel, saturated		12, 13						0	0	
	Bottom of Boring		14, 15, 16, 17, 18, 19								

LOG of TEST BORING

SMW-12

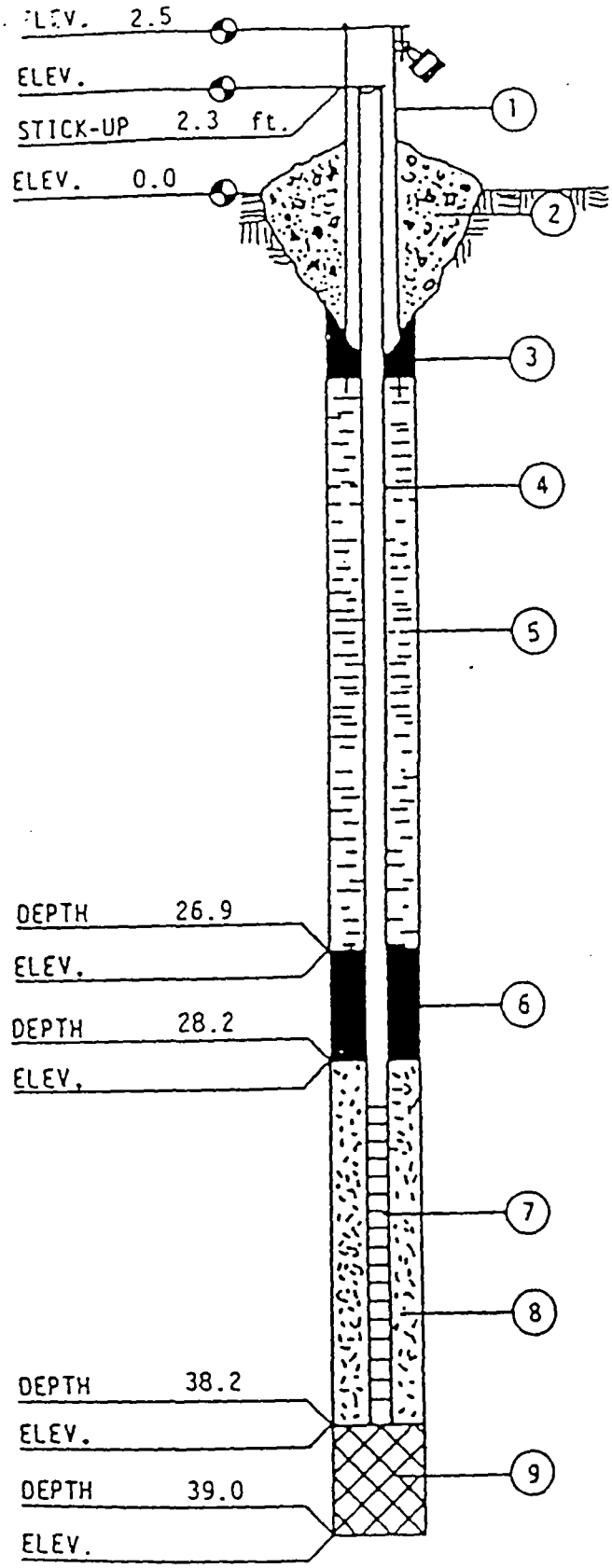
PROJECT NO.	812585	BORING No.	MW-12
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	8.0"
RIG	9920	DATE STARTED	10-27-88
CHECKED BY	TCR	DATE COMPLETED	10-27-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silty SAND, little fine Gravel		
				2			
				3			
				4	Brown fine SAND, little Silt		
				5			
				6			
				7			
				8			
				9			
				10	Trace of Gravel		
				11			
				12			
				13			
				14			
				15			
				16	End of boring MW-12 @ 15.0'		
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.5'	ADDITIVES USED	None
1/4 Hrs. after boring	5.8'	WELL INSTALLATION DEPTH	13.2'
____Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

SMW-13



EXPLORATION TECHNOLOGY INC.

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 812585

BORING/WELL NO. MW-13

DATE 10-29-88

CHIEF/UNIT KT/9920

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Concrete

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 35.5 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Cement Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 5.0

   SLOT-SIZE .008 LENGTH 4.5 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Soils

9. TYPE OF BACKFILL Natural Soils

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

SMW-13

JOHNSON & MALHOTRA, P.C.
ENVIRONMENTAL ENGINEERS

LOG OF BORING MW 13 SHEET 1 OF 2

PROJECT AND LOCATION: Johns-Manville Disposal Area, Waukegan IL		ELEVATION AND DATUM	PROJECT NO: 0651-0001-1000
DRILLING AGENCY: Exploration Technology INC	FOREMAN: Ken Tanker	DATE STARTED: 10/29/88	DATE FINISHED: 10/29/88
DRILLING EQUIPMENT: Diedrich D 50		COMPLETION DEPTH: 39' Bgs	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST	UNDIST. / CORE
CASING		WATER LEVEL (FT): FIRST	COMPL. / 24 HR.
CASING HAMMER / WEIGHT	DROP	BORING ANGLE AND DIRECTION: vertical	
SAMPLER 2' x " split spoon		INSPECTOR: David T Heidlauf	
SAMPLER HAMMER / WEIGHT 140 lbs	DROP 30"		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV., FT	SAMPLES PENETR RESIST BL/6 IN	R. CORE RECOVERY %	R. CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
	SM, medium dense, black silty SAND, some gravel (F.11)		1, 2, 3						0	0	
			4, 5								
	- - - - - - - -		6								
	SP, loose, gray m-f SAND, trace gravel, wet		7, 8, 9								
			10, 11								
	SP, loose, gray m-f SAND trace gravel, saturated		12, 13, 14, 15, 16								
	SM, medium dense, brown gray c-m-f SAND, trace gravel wet		17, 18, 19								

C.C. JOHNSON & MALHOTRA, P.C.

SMW-13

LOG OF BORING MW13

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN	CORE RECOVERY %	CORE RQD	READINGS (PPM) SAMPLE	READINGS (PPM) AMB. AIR	REMARKS
			21								
	SW; medium dense, brown gray, C-M-F SAND, trace gravel, wet		22								
			23								
			24								
			25								
			26								
	"		27								
			28								
			29								
			30								
			31								
	SW; medium dense, brown gray C-M-F SAND, trace gravel + silt saturated		32								
			33								
			34								
			35								
	SP, loose, gray, M-F SAND some silt, saturated		36								8' heave
			37								washed with tricone
	silt/clay Till		38								
	Bottom of Boring 37' BGS		39								Evidence of Till
			40								- drillability
			41								- tricone wash
			42								- clay on end of hollow Auger
			43								
			44								
			45								

LOG TEST BORING

SMW-13

PROJECT NO.	812585	BORING No.	MW-13
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4 Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	5.0"
RIG	9920	DATE STARTED	10-29-88
CHECKED BY	TCR	DATE COMPLETED	10-29-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				1	Black Silty SAND, some fine Gravel		
				2			
				3			
				4			
				5	Black Silty SAND		
				6			
				7			
				8			
				9			
				10			
				11	Brown fine SAND, trace of Silt		
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			
				23			
				24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

W.L. MEASUREMENTS:			
While drilling	6.5'	DRILL CASING INSTALLED	None
1/4 Hrs. after boring	5.8'	ADDITIVES USED	None
Hrs. after boring		WELL INSTALLATION DEPTH	38.2'
e in depth		ABANDONMENT PROCEDURE	NA

EXPLORATION TECHNOLOGY INC.

SMW-13

LOG of TEST BORING

PROJECT NO.	812585	BORING No.	MW-13
PROJECT NAME	Johns Manville Plant	BORING LOCATION	As Staked
PROJECT LOCATION	Waukegan, IL	OFFSET	
		ELEVATION	
CLIENT	C.C. Johnson & Malhotra P.C.	DRILL METHOD	4 1/4" Hollow Stem Auger
DRILLER	KT		
		BORING DIA.	3.0"
RIG	9920	DATE STARTED	10-29-88
CHECKED BY	TCR	DATE COMPLETED	10-29-88

SMP NO.	MOISTURE	BPF /N	REC (in.)	DEPTH (ft.)	CLASSIFICATION/DESCRIPTION	QU TSF	REMARKS
				35			
				36			
				37			
				38	Dense gray SILT, trace of Gravel, little Clay		
				39			
				40	End of boring MW-13 @ 39.0'		
				41			
				42			
				43			
				44			
				45			
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			

W.L. MEASUREMENTS:		DRILL CASING INSTALLED	None
While drilling	6.5'	ADDITIVES USED	None
1/4 Hrs. after boring	5.8'	WELL INSTALLATION DEPTH	38.2'
___Hrs. after boring		ABANDONMENT PROCEDURE	NA
Cave in depth			

EXPLORATION TECHNOLOGY INC.

Log of Borehole: PM-E

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Piezometers for CAG		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 16	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0				***Poorly Graded sand with Gravel (SP)*** Dark brown; moist; med. dense; roots	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
					1		***Silty Sand (SM)*** Brown; moist; trace gravel	
			0				***Poorly Graded Sand (SP)*** Brown; moist; trace gravel	
1	Tube	90			2			
			0		3			
			0					
					4			
			0					
					5		***Poorly Graded Gravel (GP)*** Light brown; dry; loose	
			0					
2	Tube	90			6		***Clayey Sand (SC)*** Dark brown; moist; dense	
			0				***Poorly Graded Sand (SP)*** Black; moist; loose; with rubble: predominantly shingles, some tar content	
					7			
			0					
					8			
			0					
					9			
			0					
3	Tube	85			10			
			0					
					11			
			0					
					12		Wet, color change to brown; no rubble present	
			0					
					13		Color change to dark gray	
			0					
4	Tube	90			14			Temp. piezometer installed. Screen from 11-16 ft. 1" Diam. PVC riser, stickup ~4'
			0					
					15			
			0					
					16		End of Borehole	

Log of Borehole: PM-M

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Piezometers for CAG		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 12	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
1	Tube	90	0		0–1		***Silty Sand (SM)*** Dark brown; moist; med. dense; roots	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0		1–12		***Poorly Graded Sand (SP)*** Brown; moist; trace gravel	
			0					
			0					
2	Tube	75	0		6		As above, with rubble: shingles with tar; black and reddish brown	
			0				As above: color change to light gray; visible fibrous material, dense	
			0		7		Color change to dark gray; wet	
3	Tube	85	0		9		Color change to dark brown, grading to gray	
			0					
			0					
			0		12		End of Borehole	Temp. piezometer installed. Screen from 7-12 ft. 1" Diam. PVC riser, stickup ~4'

Log of Borehole: PM-W

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Piezometers for CAG		Project No: 7992.00
	Project Location: Waukegan, IL	Total Depth: 12	Elevation:	Date Start: 6/21/00
Surface Conditions: Topsoil				Date End: 6/21/00
Drilling Contractor: Terra-Trace Environmental		Driller:	Geologist/Engineer: W. Teskey	

SAMPLE DATA					SUBSURFACE PROFILE			
Sample Number	Sample Type	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Depth (ft)	Symbol	Soil Description	Remarks
					0		Ground Surface	
			0		1		***Silty Sand (SM)*** Brown to dark brown; moist; med. dense; roots; trace gravel	Boring advanced with direct push soil probe. Soil continuously sampled with a 2" x 4' macrotube sampler.
			0					
1	Tube	90			2		***Poorly Graded Sand (SP)*** Black; moist; loose	
			0		3			
			0				Color change to light gray, large pieces of red rubber material	
					4			
			0		5			
			0					
2	Tube	65			6		***Silty Sand (SM)*** Dark brown to black; moist; med. dense; with weathered brick material: red and orange	
			0		7		Wood/rubble fragments at 7 ft. gray and brown	
			0				***Poorly Graded Sand (SP)*** Black grading to brown; moist; med. dense	
			0		8			
					9		Trace gravel layer	
			0					
3	Tube	100			10		Color change to gray	
			0		11			Temp. piezometer installed. Screen from 6-11 ft. 1" Diam. PVC riser, stickup ~4'
			0		12		Trace gravel layer	
							End of Borehole	
					13			
					14			
					15			
					16			

Log of Borehole: 02-12 (P)

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Temp. Wells	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 6/12/02
Surface Conditions: Concrete			**Date End:** 6/12/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface ***Concrete***	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1		***Sand (SP)*** Brown; loose; dry.	
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-13 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 6/12/02
Surface Conditions: Sand				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	
									Sand (SP) Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-14 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 6/12/02
Surface Conditions: Sand				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	
									Sand (SP) Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-15 (P)

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Temp. Wells	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 6/12/02
Surface Conditions: Sand			**Date End:** 6/12/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	
									Sand (SP) Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-16(P)

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Temp. Wells	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 6/12/02
Surface Conditions: Sand			**Date End:** 6/12/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface ***Sand (SP)*** Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-17 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 12	Elevation:	Date Start: 6/12/02
Surface Conditions: Sand				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	
									Sand (SP) Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-18 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 8	Elevation:	Date Start: 6/12/02
Surface Conditions: Concrete				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
									Concrete	
							1		***Poorly Graded Sand (SP)*** Brown; dry; loose.	
1	Tube		15	839			2		***Poorly Graded Sand with Gravel (SP)*** Black; loose; 10% cinders; solvent odor, wet.	
							3			
							4			
2	Tube		10	1080			5			
							6			
							7			
							8		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							9			
							10			
							11			
							12			
							13			
							14			
							15			

Log of Borehole: 02-19 (P)

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Temp. Wells	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 8 / **Elevation:**	**Date Start:** 6/12/02
Surface Conditions: Sand			**Date End:** 6/12/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
									Ground Surface	
1	Tube		70	0			0		***Poorly Graded Sand (SP)*** Brown; dry; loose. 2" layer with 50% black cinders.	Boring advanced with a geoprobe using a 2" OD by 4' long macrotube sampler.
							1			
							2			
							3		wet.	
							4			
2	Tube		80	0			5		gray grades in. black grades in.	
							6		dark gray grades in.	
							7			
							8		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							9			
							10			
							11			
							12			
							13			
							14			
							15			

Log of Borehole: 02-20 (P)

LFR LEVINE•FRICKE	**Client:** Johns Manville	**Project:** Solvent Recovery Temp. Wells	**Project No:** 07992
	Project Location: Waukegan, Illinois	**Total Depth:** 12 / **Elevation:**	**Date Start:** 6/12/02
Surface Conditions: Sand			**Date End:** 6/12/02
Drilling Contractor: Terra Trace Environmental		**Driller:** Jeff	**Geologist/Engineer:** W. Teskey

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface ***Sand (SP)*** Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11			
							12		End of Borehole	1" diameter PVC piezometer installed 6/12/02.
							13			
							14			
							15			

Log of Borehole: 02-21 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 11	Elevation:	Date Start: 6/12/02
Surface Conditions: Sand				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface	
									Sand (SP) Brown; loose.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10			
							11		End of Borehole	Refusal at 11'. 1" diameter PVC piezometer installed 6/12/02.
							12			
							13			
							14			
							15			

Log of Borehole: 02-22 (P)

LFR LEVINE•FRICKE	Client: Johns Manville	Project: Solvent Recovery Temp. Wells		Project No: 07992
	Project Location: Waukegan, Illinois	Total Depth: 10	Elevation:	Date Start: 6/12/02
Surface Conditions: Sand				Date End: 6/12/02
Drilling Contractor: Terra Trace Environmental		Driller: Jeff	Geologist/Engineer: W. Teskey	

SAMPLE DATA								SUBSURFACE PROFILE		
Sample Number	Sample Type	N Value	Recovery (%)	PID/FID (ppmv)	Analytical Sample	Well Data	Depth (ft)	Symbol	Soil Description	Remarks
							0		Ground Surface ***Sand (SP)*** Brown; loose; dry.	Boring advanced with a geoprobe using a 2" OD direct push drive casing with expendable aluminum point.
							1			
							2			
							3			
							4			
							5			
							6			
							7			
							8			
							9			
							10		End of Borehole	Refusal at 10'. 1" diameter PVC piezometer installed 6/12/02.
							11			
							12			
							13			
							14			
							15			

APPENDIX G

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: November 20, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00-02, Johns Manville-Tank#3

Enclosed are the results from 4 soil samples and 6 water samples received at Great Lakes Analytical on November 12, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8111791	Water: TA3-1	11/4/98	VOC, EPA 8260
8111796	Water: TA3-2	11/4/98	VOC, EPA 8260 PNA, EPA 8310
8111797	Water: TA3-3	11/6/98	VOC, EPA 8260 PNA, EPA 8310
8111798	Soil: TA3-3 (6-7')	11/6/98	VOC, EPA 8260 PNA, EPA 8310
111799	Water: TA3-4	11/6/98	VOC, EPA 8260 PNA, EPA 8310
8111800	Soil: TA3-4 (8-9')	11/6/98	VOC, EPA 8260 PNA, EPA 8310
8111801	Soil: TA3-5 (10-12')	11/6/98	VOC, EPA 8260 PNA, EPA 8310
8111802	Soil: TA3-7 (10-12')	11/9/98	VOC, EPA 8260 PNA, EPA 8310
8111803	Water: TA3-8	11/9/98	VOC, EPA 8260 PNA, EPA 8310
8111804	Water: TA3-9	11/9/98	VOC, EPA 8260 PNA, EPA 8310

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GREAT
LAKES
ANALYTICAL

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 4, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-1	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1791	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**1,800**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
' 2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**7,600**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**3,500**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**5,400**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

8111791.lfr <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 4, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1796	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**97**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
',2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**200**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**340**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**930**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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8111791.lfr <2>

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-3	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1797	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**670**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
' 2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**11**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**4.8**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**6.5**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-4	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1799	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**84**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
' 2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**2.6**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**3.0**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-8	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1803	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**2.0**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	**2.0**	**2.7**
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-9	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1804	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
',2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-3 (6-7')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1798	Analyzed:	Nov 10, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	**5.0**	**16**
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
' 2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	**5.0**	**30**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Please Note:
The internal standard recoveries were outside control limits.

8111791.lfr <7>

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›vine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-4 (8-9')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1800	Analyzed:	Nov 10, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	**5.0**	**480**
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	**5.0**	**130**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Please Note:
The internal standard recoveries were outside control limits.

8111791.lfr <8>

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-5 (10-12')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1801	Analyzed:	Nov 10, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	**5.0**	**41**
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Please Note:
The internal standard recoveries were outside control limits.

8111791.lfr <9>

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-7 (10-12')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1802	Analyzed:	Nov 10, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	**5.0**	**330**
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Please Note:
The internal standard recoveries were outside control limits.

8111791.lfr <10>

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 4, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1796	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.000026
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	0.000029
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	0.000025
Fluoranthene	0.0010	N.D.
luorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	0.00049
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <12>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
50 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-3	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1797	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0060	N.D.
Acenaphthylene	0.0048	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.000098
Benzo (a) pyrene	0.000050	0.00011
Benzo (b) fluoranthene	0.000024	0.00011
Benzo (ghi) perylene	0.000071	0.000079
Benzo (k) fluoranthene	0.000050	0.00067
Chrysene	0.000060	N.D.
Dibenzo (a,h) anthracene	0.000024	N.D.
luoranthene	0.0012	N.D.
ucrene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0036	N.D.
Phenanthrene	0.00036	0.00070
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <13>

DEC USACE DNR

GREAT LAKES ANALYTICAL

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-4	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1799	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0064	N.D.
Acenaphthylene	0.0051	N.D.
Anthracene	0.00026	N.D.
Benzo (a) anthracene	0.000013	0.00054
Benzo (a) pyrene	0.000050	0.00053
Benzo (b) fluoranthene	0.000026	0.00062
Benzo (ghi) perylene	0.000077	0.00039
Benzo (k) fluoranthene	0.000050	0.00036
Chrysene	0.000064	0.00035
Dibenzo (a,h) anthracene	0.000026	0.000061
⁻luoranthene	0.0013	0.0034
.uorene	0.0013	N.D.
Indeno (1,2,3-cd) pyrene	0.00026	N.D.
Naphthalene	0.0038	N.D.
Phenanthrene	0.00038	0.0020
Pyrene	0.0013	0.0027

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <14>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-8	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1803	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0058	N.D.
Acenaphthylene	0.0046	N.D.
Anthracene	0.00023	N.D.
Benzo (a) anthracene	0.000012	0.00031
Benzo (a) pyrene	0.000050	0.00040
Benzo (b) fluoranthene	0.000023	0.00046
Benzo (ghi) perylene	0.000069	0.00039
Benzo (k) fluoranthene	0.000050	0.00025
Chrysene	0.000058	0.00033
Dibenzo (a,h) anthracene	0.000023	0.000052
Fluoranthene	0.0012	0.0051
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00023	0.00025
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <15>

[illegible] EPA [illegible] New Jersey DEP [illegible] New York DOH 11497.
[illegible]

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 9, 1998
ɜ0 Tollgate Rd., Suite D	Sample Descript:	Water: TA3-9	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1804	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0070	N.D.
Acenaphthylene	0.0056	N.D.
Anthracene	0.00028	N.D.
Benzo (a) anthracene	0.000014	0.00026
Benzo (a) pyrene	0.000050	0.00044
Benzo (b) fluoranthene	0.000028	0.00046
Benzo (ghi) perylene	0.000083	0.00035
Benzo (k) fluoranthene	0.000050	0.00031
Chrysene	0.000070	0.00024
Dibenzo (a,h) anthracene	0.000028	0.000046
⁻luoranthene	0.0014	0.0026
uorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00028	N.D.
Naphthalene	0.0042	N.D.
Phenanthrene	0.00042	0.0012
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

ɜevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <16>

Accreditations/Certifications: Delaware IL-069, Illinois EPA-100261, New Jersey DEP [illegible], New York DOH 11437, Pennsylvania [illegible], Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-3 (6-7')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1798	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	0.0093
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <17>

Accredited Certifications: Delaware IL 069 Illinois EPA [illegible] New Jersey DEP 54-[illegible] New York DOH 11487
Tennessee DOH [illegible] Tennessee DEC [illegible] Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-4 (8-9')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1800	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <18>

[illegible] Certifications: [illegible] EPA [illegible] New Jersey DEP 54001 New York DOH-11487
[illegible] Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-5 (10-12')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1801	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <19>

GREAT LAKES ANALYTICAL

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ɘvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Tank#3		Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TA3-7 (10-12')		Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310		Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1802		Analyzed:	Nov 20, 1998
				Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	0.10
Phenanthrene	0.0087	0.0090
ʼyrene	0.0087	0.010

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111791.lfr <20>

Accreditation Certification: [illegible] Illinois EPA [illegible] New Jersey DEP 54001, New York DOH-11487, [illegible] Wisconsin DNR [illegible]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00 - 02

Project Location: Waukegan, IL

Date: 11-9-98

Serial No.:

Project Name: Johns Manville - Tank AREA #3

Field Logbook No.: NA →

Sampler (Signature): Jeffrey S. Nelson

Samplers: JSN

ANALYSES

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310					HOLD	RUSH	REMARKS
TA3-1	11-4-98	1405	8111791	3	Water	X								Send analytical results
TA3-2	11-4-98	1515	8111796	5	↓	X	X							to Jeff Nelson.
TA3-3	11-6-98	0920	8111797	5	↓	X	X							
TA3-3 (6-7')	11-6-98	0920	8111798	1	Soil	X	X							
TA3-4	11-6-98	1045	8111799	5	Water	X	X							
TA3-4 (8-9)	11-6-98	1030	8111800	1	Soil	X	X							
TA3-5 (10-12')	11-6-98	1130	8111801	1	Soil	X	X							
TA3-7 (10-12')	11-9-98	1030	8111802	1	Soil	X	X							
TA3-8	11-9-98	1100	8111803	5	Water	X	X							
TA3-9	11-9-98	1150	8111804	5	Water	X	X							

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11-9-98	TIME 1305	RECEIVED BY: (Signature) [illegible] 11/7	DATE	TIME
RELINQUISHED BY: (Signature) [illegible] 11/7	DATE	TIME	RECEIVED BY: (Signature) K. Kell	DATE 11/9/98	TIME 1500
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 Fax (847) 695-7799

Analytical Laboratory: Read on ICE +3.7°C
Great Lakes Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

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Date: November 20, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00-02, Johns Manville

Enclosed are the results from 2 soil samples, 1 water samples, 0 liquid samples received at Great Lakes Analytical on November 11, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8111805	Soil: GT-1 (7-8')	11/6/98	VOC, EPA 8260 PNA, EPA 8310
8111806	Water: GT-2	11/9/98	VOC, EPA 8260 PNA, EPA 8310
8111807	Soil: GT-2 (6-8')	11/9/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 6, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: GT-1 (7-8')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1805	Analyzed:	Nov 11, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	**5.0**	**350**
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	**5.0**	**6.9**
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries for this sample were outside control limits.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: GT-2 (6-8')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1807	Analyzed:	Nov 11, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	**5.0**	**26**
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries for this sample were outside control limits.

8111805.lfr <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: GT-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1806	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**1,700**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
2-Dichloroethane	**2.0**	**42**
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**24**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**110**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**86**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

8111805.lfr <3>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 6, 1998
50 Tollgate Rd., Suite D	Sample Descript:	Soil: GT-1 (7-8')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1805	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.087	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	0.087	N.D.
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	0.087	N.D.
Phenanthrene	0.087	N.D.
Pyrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111805.lfr <4>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: GT-2 (6-8')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1807	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: GT-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1806	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0055	N.D.
Acenaphthylene	0.0044	N.D.
Anthracene	0.00022	N.D.
Benzo (a) anthracene	0.000011	0.00058
Benzo (a) pyrene	0.000050	0.00042
Benzo (b) fluoranthene	0.000022	0.00067
Benzo (ghi) perylene	0.000065	0.00046
Benzo (k) fluoranthene	0.000050	0.00040
Chrysene	0.000055	0.0010
Dibenzo (a,h) anthracene	0.000022	0.000062
Fluoranthene	0.0011	0.0017
luorene	0.0011	N.D.
Indeno (1,2,3-cd) pyrene	0.00022	N.D.
Naphthalene	0.0033	N.D.
Phenanthrene	0.00033	0.014
Pyrene	0.0011	0.0024

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

8111805.lfr <6>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00 -02	Project Location: Waukegan, IL	Date: 11-9-98	Serial No.:
Project Name: Johns Manville - N.W. Parking lot UST	Field Logbook No.: NA →		
Sampler (Signature): Jeffrey S. Nelson	ANALYSES		Samplers: JSN

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310					HOLD	RUSH	REMARKS
GT-1 (7-8')	11-6-98	1415	8111805	1	Soil	X	X							Send analytical results
GT-2	11-9-98	0940	8111806	5	Water	X	X							to Jeff Nelson
GT-2 (6-8')	11-9-98	0930	8111807	1	Soil	X	X							

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11-9-98	TIME 1305	RECEIVED BY: (Signature) [illegible] 11/9	DATE	TIME
RELINQUISHED BY: (Signature) [illegible] 11/9	DATE	TIME	RECEIVED BY: (Signature) K. Kell	DATE 11/9/98	TIME 1500
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS: Rec'd on ICE +3.7°C		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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(847) 808-7766 FAX (847) 808-7772

Date: November 20, 1998

:vine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00-02, Johns Manville-Ind. Canal

Enclosed are the results from 2 soil samples and 2 water samples received at Great Lakes Analytical on November 12, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8111808	Water: IC-2	11/2/98	VOC, EPA 8260 PNA, EPA 8310
8111809	Water: IC-1	11/2/98	VOC, EPA 8260 PNA, EPA 8310
8111810	Soil: ICS-1 (6-7')	11/2/98	VOC, EPA 8260 PNA, EPA 8310
8111811	Soil: NBT (10-10.5')	11/3/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IC-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1808	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
' 2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**2.2**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

8111808.lfr <1>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IC-1	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1809	Analyzed:	Nov 12, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
2-Dichloroethane	2.0	N.D.
,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8111808.lfr <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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:vine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: ICS-1 (6-7')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1810	Analyzed:	Nov 11, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

GREAT LAKES ANALYTICAL

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 3, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: NBT (10-10.5')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-1811	Analyzed:	Nov 11, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
´ 2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

8111808.lfr <4>

GREAT LAKES ANALYTICAL

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IC-2	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1808	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0063	N.D.
Acenaphthylene	0.0050	N.D.
Anthracene	0.00025	N.D.
Benzo (a) anthracene	0.000013	0.00070
Benzo (a) pyrene	0.00050	0.00081
Benzo (b) fluoranthene	0.000025	0.00065
Benzo (ghi) perylene	0.000075	0.00058
Benzo (k) fluoranthene	0.00050	0.00038
Chrysene	0.000063	0.00096
Dibenzo (a,h) anthracene	0.000025	0.00015
Fluoranthene	0.0013	0.0016
Fluorene	0.0013	0.0014
Indeno (1,2,3-cd) pyrene	0.00025	N.D.
Naphthalene	0.0038	0.038
Phenanthrene	0.00038	0.0018
Pyrene	0.0013	0.0017

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
This sample was extracted outside the 14-Day holding time.
The surrogate recoveries for this sample were outside control limits.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IC-1	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 10, 1998
Attention: Jeff Nelson	Lab Number:	811-1809	Analyzed:	Nov 12, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.000024
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000024	N.D.
Benzo (ghi) perylene	0.000071	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000059	N.D.
Dibenzo (a,h) anthracene	0.000024	0.000056
Fluoranthene	0.0012	N.D.
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
This sample was extracted outside the 14-Day holding time.
The surrogate recoveries for this sample were outside control limits.

8111808.lfr <6>

GREAT LAKES ANALYTICAL

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 2, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: ICS-1 (6-7')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1810	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
ˆyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111808.lfr <7>

GREAT LAKES ANALYTICAL

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ɜvine-Fricke-Recon	Client Project ID:	6779.00-02, Johns Manville-Ind. Cana	Sampled:	Nov 3, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: NBT-1 (10-10.5')	Received:	Nov 9, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 12, 1998
Attention: Jeff Nelson	Lab Number:	811-1811	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
ʼyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

ɜevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8111808.lfr <8>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00 - 02	Project Location: Waukegan, IL	Date: 11-9-98	Serial No.:
Project Name: Johns Manville - Industrial Canal	Field Logbook No.: NA →		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JJN/GAE

ANALYSES

SAMPLES														
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	PNAs 8310	VOCs 8260					HOLD	RUSH	REMARKS
IC-2	11-2-98	1200	8111808	5	Water	X	X							Send analytical results
ICS-1	11-2-98	1530	8111809	5	Water	X	X							to Jeff Nelson
ICS-1 (6-7')	11-2-98	1530	8111810	1	Soil	X	X							
NBT-1 (10-10.5)	11-3-98	1030	8111811	1	Soil	X	X							

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11-9-98	TIME 1305	RECEIVED BY: (Signature) [signature] 11/9	DATE	TIME
RELINQUISHED BY: (Signature) [signature] 11/9	DATE	TIME	RECEIVED BY: (Signature) K. Gill	DATE 11/9/98	TIME 1500
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS: Kept on ICE +3.7°C		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 Fax (847) 695-7799

Analytical Laboratory: Great Lakes Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

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Date: November 20, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00, Johns Manville

Enclosed are the results from 2 soil samples and 4 water samples received at Great Lakes Analytical on November 16, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8113234	Water: IMS-3	11/9/98	VOC, EPA 8260 PNA, EPA 8310
8113235	Water: STF-3	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113236	Soil: STF-3, 7-8	11/12/98	pH, EPA 9045 TOC, EPA 9060 VOC, EPA 8260 PNA, EPA 8310
113237	Soil: STF-1, 6.5-7.5	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113238	Water: AB-1	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113239	Water: CD-1	11/12/98	VOC, EPA 8260

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-3, 7-8	Received:	Nov 13, 1998
Elgin, IL 60123-9364				
Attention: Jeff Nelson	Lab Number:	811-3236	Analyzed:	Nov 16, 1998
			Reported:	Nov 20, 1998

LABORATORY ANALYSIS

Analyte	EPA Method	Temperature °C	Sample Result pH units
pH	9045	1.0	8.8

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Kevin W. Keeley
Laboratory Director

8113236.lfr <1>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-3, 7-8	Received:	Nov 13, 1998
Elgin, IL 60123-9364				
Attention: Jeff Nelson	Lab Number:	811-3236	Analyzed:	Nov 25, 1998
			Reported:	Dec 1, 1998

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/kg	Sample Results mg/kg
Total Organic Carbon.....	9060	500	 12,200

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
This sample was analyzed at EMT, Inc. in Morton Grove, IL.

8113236.lfr <2>

Accreditations/Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54001, New York DOH 11487
Tennessee DOH 02[illegible], Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR [illegible]

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IMS-3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3234	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113236.lfr <3>

GREAT LAKES ANALYTICAL

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·vine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
·30 Tollgate Rd., Suite D	Sample Descript:	Water: STF-3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3235	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: AB-1	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3238	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**440**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**380**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113236.lfr <5>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: CD-1	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3239	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**3.3**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**100**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**310**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113236.lfr <6>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-3, 7-8	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3236	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
' 2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries for this sample were outside control limits.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-1, 6.5-7.5	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3237	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	250	N.D.
Benzene	50	N.D.
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chlorodibromomethane	50	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	50	N.D.
2-Dichloroethane	50	N.D.
,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis 1,3-Dichloropropene	50	N.D.
trans 1,3-Dichloropropene	50	N.D.
Ethylbenzene	**50**	**18,000**
2-Hexanone	100	N.D.
Methylene chloride	50	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	50	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
Toluene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	**50**	**8,000**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries for this sample were outside control limits.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 9, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: IMS-3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3234	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0071	N.D.
Acenaphthylene	0.0056	N.D.
Anthracene	0.00028	N.D.
Benzo (a) anthracene	0.000014	0.00083
Benzo (a) pyrene	0.000050	0.00011
Benzo (b) fluoranthene	0.000028	0.00010
Benzo (ghi) perylene	0.000085	0.00016
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000071	N.D.
Dibenzo (a,h) anthracene	0.000028	N.D.
Fluoranthene	0.0014	N.D.
luorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00028	N.D.
Naphthalene	0.0042	N.D.
Phenanthrene	0.00042	N.D.
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: STF-3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3235	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.000081
Benzo (a) pyrene	0.000012	0.000011
Benzo (b) fluoranthene	0.000024	N.D.
Benzo (ghi) perylene	0.000071	0.000076
Benzo (k) fluoranthene	0.000012	N.D.
Chrysene	0.000059	N.D.
ibenzo (a,h) anthracene	0.000024	N.D.
uoranthene	0.0012	N.D.
Fluorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville		Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: AB-1		Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310		Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3238		Analyzed:	Nov 22, 1998
				Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0072	N.D.
Acenaphthylene	0.0057	N.D.
Anthracene	0.00029	N.D.
Benzo (a) anthracene	0.000014	N.D.
Benzo (a) pyrene	0.000014	N.D.
Benzo (b) fluoranthene	0.000029	N.D.
Benzo (ghi) perylene	0.000086	0.00022
Benzo (k) fluoranthene	0.000014	N.D.
Chrysene	0.000072	N.D.
ibenzo (a,h) anthracene	0.000029	N.D.
luoranthene	0.0014	N.D.
Fluorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00029	N.D.
Naphthalene	0.0043	N.D.
Phenanthrene	0.00043	N.D.
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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·evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
·30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-3, 7-8	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 17, 1998
Attention: Jeff Nelson	Lab Number:	811-3236	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.087	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	0.087	N.D.
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	0.087	N.D.
·henanthrene	0.087	N.D.
. yrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: STF-1, 6.5-7.5	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 17, 1998
Attention: Jeff Nelson	Lab Number:	811-3237	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.087	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	0.087	N.D.
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	0.087	N.D.
henanthrene	0.087	N.D.
yrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

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CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 11-13-98	Serial No.:
Project Name: Johns Manville	Field Logbook No.:		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JSN

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310	Total Organic Carbon	pH			HOLD	RUSH	REMARKS
IMS-3	11-9-98	1500		4	Water	x	x				8113234			Send analytical results
STF-3	11-12-98	1115		5	Water	x	x				8113235			to Jeff Nelson
STF-3 (7-8')	11-12-98	1100		2	Soil	x	x	x	x		8113236			
STF-1 (6.5-7.5')	11-12-98	1000		1	Soil	x	x				8113237			
AB-1	11-12-98	1205		5	Water	x	x				8113238			
CD-1	11-12-98	2:25		3	Water	x					8113239			

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11/13/98	TIME	RECEIVED BY: (Signature) K. Kall	DATE 11/13/98	TIME 1630
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 (847) 695-7799 (Fax)

Analytical Laboratory: Great Lakes Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

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CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
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FAX (847) 808-7772

2072 [illegible]ertown Road
Broo[illegible]ld, WI 53501
(414) 798-1030
FAX (414) 798-1066

Sub COC
TO: EMT

Client:	Bill To:	TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address: GREAT LAKES ANALYTICAL 1380 BUSCH PARKWAY BUFFALO GROVE, IL 60089-4505	Address:	DATE RESULTS NEEDED: 11/20/98
		TEMPERATURE UPON RECEIPT:
Report to: Jan G. Phone #: ( ) Fax #: ( )	State & Program: Phone #: ( ) Fax #: ( )	AIR BILL NO.

Project: Lev. Fricke
Sampler:
PO/Quote #: SUB-0503

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	TOC										SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	LABORATORY ID NUMBER
1	8113236	11/9		Soil		1	Jar	X													
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
K. Ell 11-16-98 DATE TIME	DATE TIME	DATE TIME	DATE TIME
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
DATE TIME	DATE TIME	DATE TIME	DATE TIME

COMMENTS:

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1380 Busch Parkway
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Date: November 20, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00-002, Johns Manville

Enclosed are the results from 8 soil samples and 11 water samples received at Great Lakes Analytical on November 18, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8113248	Water: TP1-GW	11/10/98	VOC, EPA 8260 PNA, EPA 8310
8113249	Water: TP~~2~~3-GW (WAS)	11/11/98	VOC, EPA 8260 PNA, EPA 8310
8113250	Water: TP7-GW	11/11/98	VOC, EPA 8260 PNA, EPA 8310
8113251	Water: MW1A	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113252	Water: MW2A	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113253	Water: MW3A	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113254	Water: MW8	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113255	Water: MW9	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113256	Water: MW10	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113257	Water: MW20	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113258	Water: MW23	11/12/98	VOC, EPA 8260 PNA, EPA 8310
8113259	Soil: TP1-6'	11/10/98	VOC, EPA 8260 PNA, EPA 8310

Accreditations Certificate [illegible] Illinois EPA 100261; New Jersey DEP [illegible]; New York DOH 11487;
[illegible] USACE, Virginia [illegible] Wisconsin DNR [illegible]

,113260	Soil: TP2-5'	11/10/98	VOC, EPA 8260 PNA, EPA 8310
8113261	Soil: TP3-5'	11/10/98	VOC, EPA 8260 PNA, EPA 8310
8113262	Soil: TP4	11/10/98	VOC, EPA 8260 PNA, EPA 8310
8113263	Soil: TP7	11/10/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

.evin W. Keeley
Laboratory Director

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TP1-GW	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3248	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**2.6**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**11**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville		Sampled:	Nov 11, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TP2-GW 3 (WAB)		Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260			
Attention: Jeff Nelson	Lab Number:	811-3249		Analyzed:	Nov 18, 1998
				Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Levine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 11, 1998
630 Tollgate Rd., Suite D	Sample Descript:	Water: TP7-GW	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3250	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**6.9**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**100**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**200**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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[illegible] New Jersey DEP 54001, New York DOH-11487, [illegible] Wisconsin DNR 998017160

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
530 Tollgate Rd., Suite D	Sample Descript:	Water: MW1A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3251	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW2A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3252	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW3A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3253	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
530 Tollgate Rd., Suite D	Sample Descript:	Water: MW8	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3254	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**9.4**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Accreditations/Certifications: Illinois IEPA 100261, New Jersey DEP 54001, New York DOH 11487
Tennessee DOH, Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW9	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3255	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	500	N.D.
Benzene	**100**	**2,800**
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chlorodibromomethane	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
,1-Dichloroethane	100	N.D.
,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis 1,2-Dichloroethene	100	N.D.
trans 1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis 1,3-Dichloropropene	100	N.D.
trans 1,3-Dichloropropene	100	N.D.
Ethylbenzene	**100**	**420**
2-Hexanone	500	N.D.
Methylene chloride	100	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	**100**	**3,800**
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	**100**	**2,400**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Accreditations/Certifications: Delaware IL 009, Illinois EPA-100261, New Jersey DEP 54001, New York DOH 11497, Tennessee DOH 02931, Tennessee DEC, USACE, Virginia 00104, Wisconsin DNR 998017160

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
,30 Tollgate Rd., Suite D	Sample Descript:	Water: MW10	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3256	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**730**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**810**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**3,100**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**5,300**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Accreditations/Certifications: Delaware II-068, Illinois EPA-100261, New Jersey DEP 54001, New York DOH-11487
Tennessee DOH [illegible], Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW20	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3257	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Texas DOH, Texas DEC, USACE, Virginia 00164, Washington DNR

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW23	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3258	Analyzed:	Nov 18, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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8113248.lfr <11>

Accreditations/Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 53001, New York DOH-11487, Tennessee DOH 02304, Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR 999917160

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP1-6'	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3259	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	250	N.D.
Benzene	50	N.D.
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chlorodibromomethane	50	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	50	N.D.
,2-Dichloroethane	50	N.D.
,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis 1,3-Dichloropropene	50	N.D.
trans 1,3-Dichloropropene	50	N.D.
Ethylbenzene	**50**	**140**
2-Hexanone	100	N.D.
Methylene chloride	50	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	50	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
Toluene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	**50**	**54**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

8113248.lfr <12>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP2-5'	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3260	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	250	N.D.
Benzene	50	N.D.
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chlorodibromomethane	50	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	50	N.D.
2-Dichloroethane	50	N.D.
.,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis 1,3-Dichloropropene	50	N.D.
trans 1,3-Dichloropropene	50	N.D.
Ethylbenzene	**50**	**320**
2-Hexanone	100	N.D.
Methylene chloride	50	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	50	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
Toluene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	**50**	**230**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

8113248.lfr <13>

[illegible] EPA 100261 New Jersey DEP [illegible] New York DOH 11487
[illegible] USACE, [illegible] Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP3-5'	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3261	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
',2-Dichloroethane	5.0	N.D.
.,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

8113248.lfr <14>

Accreditations Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54001, New York DOH 11497
Tennessee DOH 02834, Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR 999917160

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP4	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3262	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
2-Dichloroethane	5.0	N.D.
,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

Please Note:
The internal standard recoveries were outside control limits.

8113248.lfr <15>

Accreditations/Certifications: [illegible] Illinois EPA-100261, New Jersey DEP 54001, New York DOH 11487
Tennessee DOH [illegible] Tennessee DEC, USACE, Virginia [illegible] Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP7	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3263	Analyzed:	Nov 17, 1998
			Reported:	Nov 20, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	250	N.D.
Benzene	50	N.D.
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chlorodibromomethane	50	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	50	N.D.
',2-Dichloroethane	50	N.D.
.,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis 1,3-Dichloropropene	50	N.D.
trans 1,3-Dichloropropene	50	N.D.
Ethylbenzene	**50**	**3,800**
2-Hexanone	100	N.D.
Methylene chloride	**50**	**51A**
4-Methyl-2-pentanone	100	N.D.
Styrene	50	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
Toluene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	**50**	**1,800**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or

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Laboratory Director

Please Note:
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.
The internal standard recoveries were outside control limits.

8113248.lfr <16>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 11, 1998
530 Tollgate Rd., Suite D	Sample Descript:	Water: TP1-GW	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3248	Analyzed:	Nov 22, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.060	N.D.
Acenaphthylene	0.048	N.D.
Anthracene	0.0024	N.D.
Benzo (a) anthracene	0.00012	0.0022
Benzo (a) pyrene	0.000050	0.0018
Benzo (b) fluoranthene	0.00024	N.D.
Benzo (ghi) perylene	0.00072	0.0013
Benzo (k) fluoranthene	0.000050	0.00084
Chrysene	0.00060	N.D.
Dibenzo (a,h) anthracene	0.00024	0.00075
Fluoranthene	0.012	N.D.
Fluorene	0.012	0.014
Indeno (1,2,3-cd) pyrene	0.0024	N.D.
Naphthalene	0.036	0.054
Phenanthrene	0.0036	0.0086
Pyrene	0.012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

8113248.lfr <17>

Accreditations/Certifications: Delaware IL 063, Illinois EPA 100261, New Jersey DEP-54001, New York DOH-11487, Tennessee DOH 02[illegible], Tennessee DEC, USACE [illegible], Wisconsin DNR-999817160

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 11, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TP3-GW	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3249	Analyzed:	Nov 22, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.070	N.D.
Acenaphthylene	0.056	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	**0.00014**	**0.0046**
Benzo (a) pyrene	**0.000050**	**0.0044**
Benzo (b) fluoranthene	**0.00028**	**0.0042**
Benzo (ghi) perylene	**0.00084**	**0.0030**
Benzo (k) fluoranthene	**0.000050**	**0.0027**
Chrysene	**0.00070**	**0.0026**
Dibenzo (a,h) anthracene	**0.00028**	**0.00068**
luoranthene	0.014	N.D.
luorene	0.014	N.D.
Indeno (1,2,3-cd) pyrene	**0.0028**	**0.0038**
Naphthalene	0.042	N.D.
Phenanthrene	**0.0042**	**0.020**
Pyrene	0.014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

8113248.lfr <18>

Accreditations Certificate [illegible] Illinois EPA [illegible] New Jersey DEP-54001; New York DOH [illegible]
Tennessee [illegible] Tennessee DEC [illegible] Virginia [illegible] Wisconsin DNR-[illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 11, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TP7-GW	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3250	Analyzed:	Nov 22, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.085	N.D.
Acenaphthylene	0.068	N.D.
Anthracene	0.0034	N.D.
Benzo (a) anthracene	0.00017	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.00020	N.D.
Benzo (ghi) perylene	0.0010	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.00085	N.D.
ibenzo (a,h) anthracene	0.00034	N.D.
luoranthene	0.017	N.D.
Fluorene	0.017	N.D.
Indeno (1,2,3-cd) pyrene	0.0034	N.D.
Naphthalene	0.051	0.23
Phenanthrene	0.0051	N.D.
Pyrene	0.017	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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8113248.lfr <19>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW1A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3251	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0056	N.D.
Acenaphthylene	0.0044	N.D.
Anthracene	0.00022	N.D.
Benzo (a) anthracene	0.000011	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000022	N.D.
Benzo (ghi) perylene	0.000067	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000056	N.D.
ibenzo (a,h) anthracene	0.000022	N.D.
luoranthene	0.0011	N.D.
Fluorene	0.0011	N.D.
Indeno (1,2,3-cd) pyrene	0.00022	N.D.
Naphthalene	0.0033	N.D.
Phenanthrene	0.00033	N.D.
Pyrene	0.0011	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

8113248.lfr <20>

Accreditations/Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 81031, New York DOH-11487,
Tennessee DOH 02-1[illegible], Texas LAB 1[illegible], USACE, Virginia 00164, Wisconsin DNR 998017180

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
.30 Tollgate Rd., Suite D	Sample Descript:	Water: MW2A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3252	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.000024
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

8113248.lfr <21>

Accreditations Certifications: Delaware IL 369, Illinois EPA 100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH [illegible]; Tennessee DEC; USACE Virginia 00164; Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW3A	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3253	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	**0.00024**	**0.0080**
Benzo (a) anthracene	**0.000012**	**0.0014**
Benzo (a) pyrene	**0.000050**	**0.0018**
Benzo (b) fluoranthene	**0.000024**	**0.0019**
Benzo (ghi) perylene	**0.000071**	**0.00080**
Benzo (k) fluoranthene	**0.000050**	**0.00077**
Chrysene	**0.000059**	**0.0012**
Dibenzo (a,h) anthracene	**0.000024**	**0.00025**
luoranthene	0.0012	N.D.
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	**0.00024**	**0.0011**
Naphthalene	0.0035	N.D.
Phenanthrene	**0.00035**	**0.00052**
Pyrene	**0.0012**	**0.0023**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

8113248.lfr <22>

Accreditations/Certifications: Delaware IL-067, Illinois EPA-100261, New Jersey DEP 54001, New York DOH-11487; Tennessee DOH [illegible], Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR-999917160

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW8	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3254	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.000018
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000024	N.D.
Benzo (ghi) perylene	0.000071	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000059	N.D.
ibenzo (a,h) anthracene	0.000024	N.D.
. fluoranthene	0.0012	N.D.
Fluorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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8113248.lfr <23>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW9	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3255	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.060	N.D.
Acenaphthylene	0.048	N.D.
Anthracene	0.0024	N.D.
Benzo (a) anthracene	0.00012	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.00072	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.00060	N.D.
Dibenzo (a,h) anthracene	0.00024	N.D.
Fluoranthene	0.012	N.D.
Fluorene	0.012	N.D.
Indeno (1,2,3-cd) pyrene	0.0024	N.D.
Naphthalene	0.036	0.14
Phenanthrene	0.0036	N.D.
Pyrene	0.012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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8113248.lfr <24>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW10	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3256	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.060	N.D.
Acenaphthylene	0.048	N.D.
Anthracene	0.0024	N.D.
Benzo (a) anthracene	0.00012	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.00024	N.D.
Benzo (ghi) perylene	0.00072	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.00060	N.D.
ibenzo (a,h) anthracene	0.00024	N.D.
luoranthene	0.012	N.D.
Fluorene	0.012	N.D.
Indeno (1,2,3-cd) pyrene	0.0024	N.D.
Naphthalene	0.036	0.28
Phenanthrene	0.00030	N.D.
Pyrene	0.012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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8113248.lfr <25>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW20	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3257	Analyzed:	Nov 23, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
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8113248.lfr <26>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 12, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW23	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3258	Analyzed:	Nov 20, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0071	N.D.
Acenaphthylene	0.0057	N.D.
Anthracene	0.00028	N.D.
Benzo (a) anthracene	0.000014	0.000022
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000028	N.D.
Benzo (ghi) perylene	0.000085	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000071	N.D.
ibenzo (a,h) anthracene	0.000028	N.D.
luoranthene	0.0014	N.D.
Fluorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00028	N.D.
Naphthalene	0.0043	N.D.
Phenanthrene	0.00043	N.D.
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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8113248.lfr <27>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP1-6'	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 17, 1998
Attention: Jeff Nelson	Lab Number:	811-3259	Analyzed:	Nov 22, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.087	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	0.087	N.D.
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	0.087	0.14
henanthrene	0.087	N.D.
yrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113248.lfr <28>

Accreditations/Certifications: Delaware IL 069; [illegible] EPA [illegible]; New Jersey DEP 54001; New York DOH 11487
Tennessee DOH [illegible]; Tennessee DEP [illegible]; Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP2-5'	Received:	
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 17, 1998
Attention: Jeff Nelson	Lab Number:	811-3260	Analyzed:	Nov 22, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.087	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	**0.087**	**0.087**
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	**0.087**	**0.21**
henanthrene	0.087	N.D.
yrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
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8113248.lfr <29>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP3-5'	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3261	Analyzed:	Nov 23, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	**0.087**	**0.24**
Acenaphthylene	2.0	N.D.
Anthracene	0.087	N.D.
Benzo (a) anthracene	0.087	N.D.
Benzo (a) pyrene	0.087	N.D.
Benzo (b) fluoranthene	0.087	N.D.
Benzo (ghi) perylene	0.087	N.D.
Benzo (k) fluoranthene	0.087	N.D.
Chrysene	0.087	N.D.
Dibenzo (a,h) anthracene	0.087	N.D.
Fluoranthene	0.087	N.D.
Fluorene	0.087	N.D.
Indeno (1,2,3-cd) pyrene	0.087	N.D.
Naphthalene	**0.087**	**6.2**
henanthrene	0.087	N.D.
yrene	0.087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113248.lfr <30>

Accreditations/Certifications: Delaware [illegible] Illinois EPA-[illegible] New Jersey DEP-[illegible] New York DOH-[illegible]
Tennessee DOH [illegible] Texas DEC [illegible] USACE [illegible] Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP4	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3262	Analyzed:	Nov 23, 1998
			Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
henanthrene	0.0087	N.D.
yrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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8113248.lfr <31>

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville		Sampled:	Nov 10, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TP7		Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310		Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3263		Analyzed:	Nov 23, 1998
				Reported:	Nov 24, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
henanthrene	0.0087	N.D.
yrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113248.lfr <32>

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Tennessee DOH [illegible]; Tennessee DEC; USACE; Virginia [illegible]; Wisconsin DNR [illegible]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00-002	Project Location: WAUKEGAN, IL	Date: 11/13/98	Serial No.:
Project Name: Manville	Field Logbook No.:		
Sampler (Signature): John P. Chitwood			Samplers: JPC

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOC 8260	PAH 8310					HOLD	RUSH	REMARKS
TP1-GW	11/10/98	1400		2	W	X	X							8113248
TP3-GW	11/11/98	0830		2	W	X	X							8113249
TP7-GW	11/11/98	1430		2	W	X	X							8113250
MW1A	11/12/98	0950		2	W	X	X							8113251
MW2A	11/12/98	1110		2	W	X	X							8113252
MW3A	11/12/98	1135		2	W	X	X							8113253
MW8	11/12/98	1100		2	W	X	X							8113254
MW9	11/12/98	1200		2	W	X	X							8113255
MW10	11/12/98	1005		2	W	X	X							8113256
MW20	11/12/98	1425		~~2~~ 4	W	X	X							8113257
MW23	11/12/98	1330		2	W	X	X							8113258
TP1-6'	11/10/98	1350		1	SOIL	X	X							8113259
~~TP1~~ TP2-5'	11/10/98	1430		1	SOIL	X	X							8113260
TP3-5'	11/10/98	1535		1	SOIL	X	X							8113261
TP4	11/11/98	0945		1	SOIL	X	X							8113262
TP7	11/11/98	1415		1	SOIL	X	X							HIGH CONCENTRATION 8113263

RESULTS TO JOHN CHITWOOD

RELINQUISHED BY: (Signature) John P. Chitwood	DATE 11/13/98	TIME	RECEIVED BY: (Signature) K. Ell	DATE 11/13	TIME 1630
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 FAX (847) 695-7799

Analytical Laboratory: Great Lakes Analytical

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COC.CDR 101596

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Date: November 23, 1998

Levine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00-002, Johns Manville

Enclosed are the results from 8 water samples received at Great Lakes Analytical on November 13, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8113240	Water: MW1	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113241	Water: MW2	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113242	Water: MW3	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113243	Water: MW14	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113244	Water: MW13	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113245	Water: MW~~6~~ 5 (WAS)	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113246	Water: MW7	11/13/98	VOC, EPA 8260 PNA, EPA 8310
8113247	Water: MW15	11/13/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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ɔvine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
ɔ30 Tollgate Rd., Suite D	Sample Descript:	Water: MW1	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3240	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
ı,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW2	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3241	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3242	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW14	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3243	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW13	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3244	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW~~6~~ 5 WMB	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3245	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**5.5**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW7	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3246	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW15	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-3247	Analyzed:	Nov 18, 1998
			Reported:	Nov 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW1	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3240	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
,30 Tollgate Rd., Suite D	Sample Descript:	Water: MW2	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3241	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0067	N.D.
Acenaphthylene	0.0053	N.D.
Anthracene	0.00027	N.D.
Benzo (a) anthracene	0.000013	N.D.
Benzo (a) pyrene	0.000013	N.D.
Benzo (b) fluoranthene	0.000027	N.D.
Benzo (ghi) perylene	0.000080	N.D.
Benzo (k) fluoranthene	0.000013	N.D.
Chrysene	0.000067	N.D.
ibenzo (a,h) anthracene	0.000027	N.D.
luoranthene	0.0013	N.D.
Fluorene	0.0013	N.D.
Indeno (1,2,3-cd) pyrene	0.00027	N.D.
Naphthalene	0.0040	N.D.
Phenanthrene	0.00040	N.D.
Pyrene	0.0013	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW3	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3242	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0065	N.D.
Acenaphthylene	0.0052	N.D.
Anthracene	0.00026	N.D.
Benzo (a) anthracene	0.000013	N.D.
Benzo (a) pyrene	0.000013	N.D.
Benzo (b) fluoranthene	0.000026	N.D.
Benzo (ghi) perylene	0.000078	N.D.
Benzo (k) fluoranthene	0.000013	N.D.
Chrysene	0.000065	N.D.
ibenzo (a,h) anthracene	0.000026	N.D.
luoranthene	0.0013	N.D.
Fluorene	0.0013	N.D.
Indeno (1,2,3-cd) pyrene	0.00026	N.D.
Naphthalene	0.0039	N.D.
Phenanthrene	0.00039	N.D.
Pyrene	0.0013	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113240.lfr <11>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW14	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3243	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0071	N.D.
Acenaphthylene	0.0056	N.D.
Anthracene	0.00028	N.D.
Benzo (a) anthracene	0.000014	0.00018
Benzo (a) pyrene	0.000014	0.00025
Benzo (b) fluoranthene	0.000028	0.00022
Benzo (ghi) perylene	0.000085	0.00018
Benzo (k) fluoranthene	0.000014	0.00013
Chrysene	0.000071	0.00014
`ibenzo (a,h) anthracene	0.000028	N.D.
. luoranthene	0.0014	N.D.
Fluorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00028	N.D.
Naphthalene	0.0042	N.D.
Phenanthrene	0.00042	N.D.
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW13	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 16, 1998
Attention: Jeff Nelson	Lab Number:	811-3244	Analyzed:	Nov 22, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0077	N.D.
Acenaphthylene	0.0062	N.D.
Anthracene	0.00031	N.D.
Benzo (a) anthracene	0.000015	N.D.
Benzo (a) pyrene	0.000015	N.D.
Benzo (b) fluoranthene	0.000031	0.000045
Benzo (ghi) perylene	0.000092	N.D.
Benzo (k) fluoranthene	0.000015	N.D.
Chrysene	0.000077	N.D.
Dibenzo (a,h) anthracene	0.000031	N.D.
Fluoranthene	0.0015	N.D.
luorene	0.0015	N.D.
Indeno (1,2,3-cd) pyrene	0.00031	N.D.
Naphthalene	0.0046	N.D.
Phenanthrene	0.00046	N.D.
Pyrene	0.0015	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

8113240.lfr <13>

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW~~6~~5	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3245	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	N.D.
Benzo (a) pyrene	0.000012	N.D.
Benzo (b) fluoranthene	0.000024	N.D.
Benzo (ghi) perylene	0.000071	N.D.
Benzo (k) fluoranthene	0.000012	N.D.
Chrysene	0.000059	N.D.
Dibenzo (a,h) anthracene	0.000024	N.D.
Fluoranthene	0.0012	N.D.
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

8113240.lfr <14>

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW7	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3246	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.00011
Benzo (a) pyrene	0.000012	0.00011
Benzo (b) fluoranthene	0.000024	0.000089
Benzo (ghi) perylene	0.000071	0.000081
Benzo (k) fluoranthene	0.000012	0.000062
Chrysene	0.000059	N.D.
Dibenzo (a,h) anthracene	0.000024	N.D.
Fluoranthene	0.0012	N.D.
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	N.D.
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8113240.lfr <15>

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00-002, Johns Manville	Sampled:	Nov 13, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW15	Received:	Nov 13, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 18, 1998
Attention: Jeff Nelson	Lab Number:	811-3247	Analyzed:	Nov 20, 1998
			Reported:	Nov 23, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0059	N.D.
Acenaphthylene	0.0047	N.D.
Anthracene	0.00024	N.D.
Benzo (a) anthracene	0.000012	0.000015
Benzo (a) pyrene	0.000012	N.D.
Benzo (b) fluoranthene	0.000024	N.D.
Benzo (ghi) perylene	0.000071	N.D.
Benzo (k) fluoranthene	0.000012	N.D.
Chrysene	0.000059	N.D.
Dibenzo (a,h) anthracene	0.000024	N.D.
luoranthene	0.0012	N.D.
luorene	0.0012	N.D.
Indeno (1,2,3-cd) pyrene	0.00024	N.D.
Naphthalene	0.0035	N.D.
Phenanthrene	0.00035	0.00045
Pyrene	0.0012	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

8113240.lfr <16>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00-002	Project Location: WAUKEGAN	Date: 11/13/98	Serial No.:
Project Name: Manville	Field Logbook No.:		
Sampler (Signature): John Chitwood	ANALYSES		Samplers: JK

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8260	PAH 8310					HOLD	RUSH	REMARKS
MW1	11/13/98	0915		4	WATER	X	X							8113240
MW2	11/13/98	0900		4	WATER	X	X							8113241
MW3	11/13/98	0845		4	WATER	X	X							8113242
MW14	11/13/98	1210		4	WATER	X	X							8113243
MW13	11/13/98	1245		4	WATER	X	X							8113244
MW65	11/13/98	1330		4	WATER	X	X							8113245
MW7	11/13/98	1400		4	WATER	X	X							8113246
MW15	11/13/98	1425		4	WATER	X	X							8113247

WAB

RESULTS TO JOHN CHITWOOD

RELINQUISHED BY: (Signature) John Chitwood	DATE 11/13/98	TIME	RECEIVED BY: (Signature) K. Ell	DATE 11/13	TIME 1630
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 FAX (847) 695-7799

Analytical Laboratory: Great Lakes Analytical

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November 30, 1998

Levine-Fricke- Recon Environmental Corp.
Attn: Mr. Nelson
194 Forbes Road
Braintree , MA 02184

RE: Levine-Fricke- Recon Environmental Corp.
Job Number 98118268
P.O. # 6779.00-002
6779.00-002; Johns Manville; Waukegan IL

Dear Mr. Nelson:

Enclosed are the results for PLM asbestos analysis of the following Levine-Fricke- Recon Environmental Corp. samples received at SCILAB on Tuesday, November 24, 1998, for a 5 day turnaround:

H-1 (2-3), H-1 (7-8), BA-1 (2-3), BA-2 (7-8), GT-2 (0-1), TA 3-7 (3-4), HA-5 (4-5), HA-6 (5-6), HA-8 (2-3), HA-8 (4-5)

The 10 samples contained in zip lock bags were shipped to SciLab via FedEx. These samples were prepared and analyzed according to the EPA Interim Method (40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory indentification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. SciLab assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by SciLab, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full, and with the approval of the laboratory.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

J. Keane Ber

John J. Sulkowski
Laboratory Director

SciLab Job#: 98-11-8268
Client Name: Levine-Fricke- Recon Environmental Corp.

Table I
Summary of Bulk Asbestos Analysis Results

6779.00-002; Johns Manville; Waukegan IL

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP #	** Asbestos % by TEM ELAP #
01	H-1 (2-3) Soil		---	---	---	---	NAD	NA
02	H-1 (7-8) Soil		---	---	---	---	NAD	NA
03	BA-1 (2-3) Soil		---	---	---	---	Amosite Present. Chrysotile Present.	NA
04	BA-2 (7-8) Soil		---	---	---	---	NAD	NA
05	GT-2 (0-1) Soil		---	---	---	---	Chrysotile Present. Crocidolite Present.	NA
06	TA 3-7 (3-4) Soil		---	---	---	---	Chrysotile Present.	NA
07	HA-5 (4-5) Soil		---	---	---	---	Chrysotile Present. Crocidolite Present.	NA
08	HA-6 (5-6) Soil		---	---	---	---	Chrysotile Present. Crocidolite Present.	NA

Reviewed by: Julie Keane

PLM analyst: Steven Grevelis TEM analyst: _____

TEM Quantitation should be considered qualitative only (positive or negative) for beginning sample weights of zero or less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

SciLab Job#: **98-11-8268**

Client Name: Levine-Fricke- Recon Environmental Corp.

Table I
Summary of Bulk Asbestos Analysis Results

6779.00-002; Johns Manville; Waukegan IL

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP #	** Asbestos % by TEM ELAP #
09	HA-8 (2-3) Soil		---	---	---	---	Chrysotile Present. Crocidolite Present.	NA
10	HA-8 (4-5) Soil		---	---	---	---	Chrysotile Present. Crocidolite Present.	NA

Reviewed by: Julie Keane

PLM analyst: Steven Grevelis; TEM analyst: _____

TEM Quantitation should be considered qualitative only (positive or negative) for beginning sample weights of zero or less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

98118268

Project No.: 6779.00-002	Project Location: Waukegan IL	Date: 11/23/98	Serial No.:
Project Name: Johns Manville	Field Logbook No.:		
Sampler (Signature): Jeff Nelson			Samplers: JSN

SAMPLES / ANALYSES

	SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	Asbestos						HOLD	RUSH	REMARKS
1	H-1 (2-3)	11/17	1000		1	Soil	↓								Report Results To JEFF NELSON
2	H-1 (7-8)	11/17	1020		1	↓	↓								
3	BA-1 (2-3)	11/2	0900		1	↓	↓								
4	BA-2 (7-8)	11/2	1010		1	↓	↓								
5	GT-2 (0-1)	11/9	1130		1	↓	↓								
6	TA3-7 (3-4)	11/9	1510		1	↓	↓								
7	HA-5 (4-5)	11/4	0900		1	↓	↓								
8	HA-6 (5-6)	11/4	0950		1	↓	↓								
9	HA-8 (2-3)	11/4	1040		1	↓	↓								
10	HA-8 (4-5)	11/4	1130		1	↓	↓								

RELINQUISHED BY: (Signature) Jeff Nelson by JPC [signature]	DATE 11/23/98	TIME 1700	RECEIVED BY: (Signature) [signature]	DATE 11/24/98	TIME 10:00
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 FAX (847) 695-7799

Analytical Laboratory: Chris Berot (781) 337-9993
SciLab
8 School St.
Weymouth, MA 02189
FedEx Trk # 4273 9501 5730

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COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: December 3, 1998

.evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00, Johns Manville

Enclosed are the results from 4 soil samples and 4 water samples received at Great Lakes Analytical on November 25, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8114014	Soil: D-7, 6-8	11/16/98	VOC, EPA 8260 PNA, EPA 8310
8114015	Water: C-1	11/17/98	VOC, EPA 8260 PNA, EPA 8310
8114016	Water: C-2	11/17/98	VOC, EPA 8260 PNA, EPA 8310
8114017	Soil: C-3, 6-8	11/16/98	VOC, EPA 8260 PNA, EPA 8310
8114018	Soil: B-2, 6-8	11/16/98	VOC, EPA 8260 PNA, EPA 8310
8114019	Water: A-1	11/17/98	VOC, EPA 8260 PNA, EPA 8310
8114020	Water: A-2	11/17/98	VOC, EPA 8260 PNA, EPA 8310
8114021	Soil: A-2, 6-8	11/16/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: D-7, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4014	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
',1-Dichloroethane	5.0	N.D.
,,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	**5.0**	**630**
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	**5.0**	**560**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <1>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH 02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR 999917160

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: C-3, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4017	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
,1-Dichloroethane	5.0	N.D.
.,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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8114014.lfr <2>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: B-2, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4018	Analyzed:	11/2/
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
,1-Dichloroethane	5.0	N.D.
.,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
,30 Tollgate Rd., Suite D	Sample Descript:	Soil: A-2, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4021	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1-Dichloroethane	5.0	N.D.
.,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	**5.0**	**1,000**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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8114014.lfr <4>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled: Nov 17, 1998
.30 Tollgate Rd., Suite D	Sample Descript:	Water: C-1	Received: Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260	
Attention: Jeff Nelson	Lab Number:	811-4015	Analyzed: Nov 25, 1998
			Reported: Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**11**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	**2.0**	**44**
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
.1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**55**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**36**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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8114014.lfr <5>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: C-2	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4016	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	**2.0**	**2.0**
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**4.2**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**4.0**

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
,30 Tollgate Rd., Suite D	Sample Descript:	Water: A-1	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4019	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
',1-Dichloroethane	2.0	N.D.
,,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <7>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001, New York DOH-11487; Tennessee DOH 02804; Tennessee DEC, USACE, Virginia 00164; Wisconsin DNR-999917160

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: A-2	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4020	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	**2.0**	**13**
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	**2.0**	**5.0**
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
',1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**840**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**990**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <8>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR 999917160

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: D-7, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4014	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	**0.0087**	**0.23**
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	**0.0087**	**0.11**
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	**0.0087**	**1.1**
Phenanthrene	**0.0087**	**0.011**
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8114014.lfr <9>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: C-3, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4017	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Please Note:
The surrogate recoveries for this sample were outside control limits.

8114014.lfr <10>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: B-2, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4018	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Please Note:
The surrogate recoveries for this sample were outside control limits.

8114014.ltr <11>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: A-2, 6-8	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4021	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	**0.0087**	**0.016**
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	**0.0087**	**0.11**
Phenanthrene	**0.0087**	**0.0090**
Pyrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
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Please Note:
The surrogate recoveries for this sample were outside control limits.

8114014.lfr <12>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: C-1	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4015	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0090	N.D.
Acenaphthylene	0.0072	N.D.
Anthracene	0.00036	N.D.
Benzo (a) anthracene	0.000018	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000036	N.D.
Benzo (ghi) perylene	0.000108	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000090	N.D.
Dibenzo (a,h) anthracene	0.000036	N.D.
Fluoranthene	0.0018	N.D.
Fluorene	0.0018	0.030
Indeno (1,2,3-cd) pyrene	0.00036	N.D.
Naphthalene	0.0054	N.D.
Phenanthrene	0.00054	N.D.
Pyrene	0.0018	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample were outside control limits.

8114014.lfr <13>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: C-2	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4016	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0067	N.D.
Acenaphthylene	0.0053	N.D.
Anthracene	0.00027	N.D.
Benzo (a) anthracene	0.000013	N.D.
Benzo (a) pyrene	0.000013	N.D.
Benzo (b) fluoranthene	0.000027	N.D.
Benzo (ghi) perylene	0.000080	N.D.
Benzo (k) fluoranthene	0.000013	N.D.
Chrysene	0.000067	N.D.
ibenzo (a,h) anthracene	0.000027	N.D.
luoranthene	0.0013	N.D.
Fluorene	0.0013	N.D.
Indeno (1,2,3-cd) pyrene	0.00027	N.D.
Naphthalene	0.0040	N.D.
Phenanthrene	0.00040	N.D.
Pyrene	0.0013	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <14>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: A-1	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4019	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0072	N.D.
Acenaphthylene	0.0057	N.D.
Anthracene	0.00029	N.D.
Benzo (a) anthracene	0.000014	N.D.
Benzo (a) pyrene	0.000014	N.D.
Benzo (b) fluoranthene	0.000029	N.D.
Benzo (ghi) perylene	0.000086	N.D.
Benzo (k) fluoranthene	0.000014	N.D.
Chrysene	0.000072	N.D.
Dibenzo (a,h) anthracene	0.000029	N.D.
Fluoranthene	0.0014	N.D.
Fluorene	0.0014	N.D.
Indeno (1,2,3-cd) pyrene	0.00029	N.D.
Naphthalene	0.0043	N.D.
Phenanthrene	0.00043	N.D.
Pyrene	0.0014	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <15>

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: A-2	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4020	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	0.078
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114014.lfr <16>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 11-18-98	Serial No.:
Project Name: Johns Manville	Field Logbook No.: NA		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JSN

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310					HOLD	RUSH	REMARKS
D-7 (6-8')	11-16-98	1400		1	Soil	x	x			8114014				Send analytical results
C-1	11-17-98	1000		4	Water	x	x			8114015				to Jeff Nelson
C-2	11-17-98	1130		5	Water	x	x			8114016				
C-3 (6-8')	11-17-98	1230		2	Soil	x	x			8114017				
B-2 (6-8')	11-17-98	1500		2	Soil	x	x			8114018				
A-1	11-17-98	1535		5	Water	x	x			8114019				
A-2	11-17-98	1630		5	Water	x	x			8114020				
A-2 (6-8')	11-17-98	1630		2	Soil	x	x			8114021				

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11-18-98	TIME 1530	RECEIVED BY: (Signature) Mark Beaulieu	DATE 11-18-98	TIME 3:45 pm
RELINQUISHED BY: (Signature) Larsen Exp.	DATE 11/18	TIME 1700	RECEIVED BY: (Signature) K. Kell	DATE 11/18	TIME 1700
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory:
Great Lakes Analytical
Buffalo Grove, IL

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COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: December 3, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00.002, Manville

Enclosed are the results from 1 soil sample and 1 water sample received at Great Lakes Analytical on November 28, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8114417	Water: TPB Water	11/19/98	VOC, EPA 8260 PNA, EPA 8310
8114423	Soil: TPB Soil 10-12'	11/18/98	VOC, EPA 8260 PNA, EPA 8310

– Bldg E Pit "B"

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487, Tennessee DOH 02804; Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 19, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TPB Water	Received:	Nov 20, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4417	Analyzed:	Nov 28, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
',1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114417.lfr <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 18, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: TPB Soil	Received:	Nov 20, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4423	Analyzed:	Nov 30, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1-Dichloroethane	5.0	N.D.
,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114417.lfr <2>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 19, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TPB Water	Received:	Nov 20, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4417	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.00015
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	0.00065
Benzo (k) fluoranthene	0.000010	0.000058
Chrysene	0.000050	0.00021
ibenzo (a,h) anthracene	0.000020	0.000057
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	0.00054
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample are outside control limits.

8114417.lfr <3>

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 18, 1998
530 Tollgate Rd., Suite D	Sample Descript:	Soil: TPB Soil	Received:	Nov 20, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4423	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	0.029
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	0.013
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	0.022
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	0.050
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	0.069
Pyrene	0.0087	0.020

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recoveries for this sample are outside control limits.

8114417.lfr <4>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00.002	Project Location: Waukegan	Date: 11/19/98	Serial No.:
Project Name: Manville	Field Logbook No.:		
Sampler (Signature): Bal Bore	ANALYSES		Samplers: BAL

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOC 8260	PAH 8310					HOLD	RUSH	REMARKS
TPB	11/18/98	0740		4	Water	X	X							8114417
TPB	11/18/98	1050		2	Soil	X	X							8114423

RELINQUISHED BY: (Signature) Bal Bore	DATE 11/20/98	TIME	RECEIVED BY: (Signature) [illegible] 11/20	DATE	TIME
RELINQUISHED BY: (Signature) [illegible]	DATE 11/20	TIME	RECEIVED BY: (Signature) K. Kell	DATE 11/20/98	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical

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COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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(847) 808-7766 FAX (847) 808-7772

Date: December 3, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00.002, Manville

Enclosed are the results from 5 soil samples and 2 water samples received at Great Lakes Analytical on November 23, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8114007	Water: MW04	11/16/98	VOC, EPA 8260 PNA, EPA 8310
8114008	Water: MW06	11/16/98	VOC, EPA 8260 PNA, EPA 8310
8114009	Soil: ~~TPT~~ "TP-N" (was) - Bldg D, North saturator test pit "N" 6-8'	11/17/98	PCB, EPA 8082 VOC, EPA 8260 PNA, EPA 8310
114010	Soil: PCB1 - transformer south of Bldg A 0-.5	11/17/98	PCB, EPA 8082
8114011	Soil: PCB2 - transformer south of Bldg R	11/17/98	PCB, EPA 8082
8114012	Soil: PCB3 - transformer south of Power House	11/17/98	PCB, EPA 8082
8114013	Soil: PCB4 - transformer ~~south~~ north side, west end of Bldg A	11/17/98	PCB, EPA 8082

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

evin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069, Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH 02804, Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: ~~TP1~~ TP-N	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8082	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4009	Analyzed:	Nov 23, 1998
			Reported:	Dec 3, 1998

POLYCHLORINATED BIPHENYLS (EPA 8082)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016	50	N.D.
PCB 1221	50	N.D.
PCB 1232	50	N.D.
PCB 1242	50	N.D.
PCB 1248	50	N.D.
PCB 1254	50	N.D.
PCB 1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <1>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: PCB1	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8082	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4010	Analyzed:	Nov 23, 1998
			Reported:	Dec 3, 1998

POLYCHLORINATED BIPHENYLS (EPA 8082)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016	50	N.D.
PCB 1221	50	N.D.
PCB 1232	50	N.D.
PCB 1242	50	N.D.
PCB 1248	50	N.D.
PCB 1254	50	N.D.
PCB 1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: PCB2	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8082	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4011	Analyzed:	Nov 23, 1998
			Reported:	Dec 3, 1998

POLYCHLORINATED BIPHENYLS (EPA 8082)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016	50	N.D.
PCB 1221	50	N.D.
PCB 1232	50	N.D.
PCB 1242	50	N.D.
PCB 1248	50	N.D.
PCB 1254	50	N.D.
PCB 1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <3>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: PCB3	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8082	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4012	Analyzed:	Nov 23, 1998
			Reported:	Dec 3, 1998

POLYCHLORINATED BIPHENYLS (EPA 8082)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016	50	N.D.
PCB 1221	50	N.D.
PCB 1232	50	N.D.
PCB 1242	50	N.D.
PCB 1248	50	N.D.
PCB 1254	50	N.D.
PCB 1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <4>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: PCB4	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8082	Extracted:	Nov 20, 1998
Attention: Jeff Nelson	Lab Number:	811-4013	Analyzed:	Nov 23, 1998
			Reported:	Dec 3, 1998

POLYCHLORINATED BIPHENYLS (EPA 8082)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016	50	N.D.
PCB 1221	50	N.D.
PCB 1232	50	N.D.
PCB 1242	50	N.D.
PCB 1248	50	N.D.
PCB 1254	50	N.D.
PCB 1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <5>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW04	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4007	Analyzed:	Nov 24, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
.,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <6>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW06	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	811-4008	Analyzed:	Nov 24, 1998
			Reported:	Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <7>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH 02804; Tennessee DEC, USACE, Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled: Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: ~~TPT~~ TP-N (WAB)	Received: Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260	
Attention: Jeff Nelson	Lab Number:	811-4009	Analyzed: Nov 25, 1998
			Reported: Dec 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1-Dichloroethane	5.0	N.D.
,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8114009.lfr <8>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW04	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4007	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.000013
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
luorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recovery for this sample was outside control limits.

8114009.lfr <9>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW06	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 19, 1998
Attention: Jeff Nelson	Lab Number:	811-4008	Analyzed:	Nov 25, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.000062
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	0.000052
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	0.000069
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
luorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	0.00051
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recovery for this sample was outside control limits.

8114009.lfr <10>

GREAT LAKES ANALYTICAL

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Levine-Fricke-Recon	Client Project ID:	6779.00.002, Manville	Sampled:	Nov 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: ~~TP1~~ TP-N	Received:	Nov 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Nov 23, 1998
Attention: Jeff Nelson	Lab Number:	811-4009	Analyzed:	Dec 1, 1998
			Reported:	Dec 3, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	**0.0087**	**0.025**
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	N.D.
Phenanthrene	0.0087	N.D.
Pyrene	**0.0087**	**0.0090**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The surrogate recovery for this sample was outside control limits.

8114009.lfr <11>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00.002	Project Location: Waukegan	Date: 11/17/98	Serial No.:
Project Name: Manville	Field Logbook No.:		
Sampler (Signature): Bal Bure			Samplers: BAL

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOC 8260	PAH 8310	PCB				HOLD	RUSH	REMARKS
MW04	11/16/98	1120		4	WATER	X	X							RESULTS TO 8114007
MW06	11/16/98	1200		4	WATER	X	X							8114008
TP~~4~~ N	11/17/98	0900		2	SOIL	X	X	X						JOHN CHITWOOD 8114009
PCB1 (WB)	11/17/98	1500		1	SOIL			X						8114010
PCB2	11/17/98	1450		1	SOIL			X						8114011
PCB3	11/17/98	1510		1	SOIL			X						8114012
PCB4	11/17/98	1520		1	SOIL			X						8114013

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 11-18-98	TIME 1545	RECEIVED BY: (Signature) Mark Beaver	DATE 11-18-98	TIME 3:45 pm
RELINQUISHED BY: (Signature) Larson Exp.	DATE 11/18	TIME 1700	RECEIVED BY: (Signature) K. Kell	DATE 11/18	TIME 1700
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855 (FAX) (847) 695-7799

Analytical Laboratory: Great Lakes Analytical

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: December 28, 1998

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: J. Manville, 6779.01.001

Enclosed are the results from 1 water samples received at Great Lakes Analytical on December 18, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8124345	Water: TPC1	12/18/98	PNA, EPA 8310

— Test Pit Located west of Front Street across from Bldg C
— REC: C-West Tanks

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

ery truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8124345.lfr <1>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	J. Manville, 6779.01.001	Sampled:	Dec 18, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: TPC1	Received:	Dec 18, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Dec 24, 1998
Attention: Jeff Nelson	Lab Number:	812-4345	Analyzed:	Dec 26, 1998
			Reported:	Dec 28, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000050	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000050	N.D.
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
luorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8124345.lfr <1>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 32 PSB 6779.01.001	Project Location: Waukegan	Date: 12/18/98	Serial No.:
Project Name: J. Manville	Field Logbook No.:		
Sampler (Signature): Bal Bare	ANALYSES		Samplers: BSB

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	8310						HOLD	RUSH	REMARKS 8124345
TPC1	12/18/98	0545		1	Water	X								Results to Jeff Nelson
														Standard 5-day

RELINQUISHED BY: (Signature) Bal Bare	DATE 12/18/98	TIME 1535	RECEIVED BY: (Signature) [illegible]	DATE 12/18/98	TIME 15:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory:

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: December 31, 1998

.evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123
Attention: Jeff Nelson

Project: 6779.00, Johns Manville

Enclosed are the results from 2 soil samples and 4 water samples received at Great Lakes Analytical on December 31, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8125102	Water: J-21 – G WAS	12/16/98	VOC, EPA 8260 PNA, EPA 8310
8125105	Water: N-24 – G WAS	12/16/98	VOC, EPA 8260 PNA, EPA 8310
8125106	Water: O-16 – G WAS	12/16/98	VOC, EPA 8260 PNA, EPA 8310
8125107	Water, MW-11	12/18/98	TPH Diesel, EPA 3510/8015 TPH Gas, EPA 5030/8015
8125109	Soil: MW-25 8-10'	12/17/98	VOC, EPA 8260 PNA, EPA 8310
8125110	Soil: MW-27 3-5'	12/18/98	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

RECEIVED
JAN - 5
LEVINE-FRICKE

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 18, 1998
30 Tollgate Rd., Suite D	Matrix Descript:	Water	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 3510/8015	Extracted:	Dec 29, 1998
Attention: Jeff Nelson	First Sample #:	812-5107	Analyzed:	Dec 31, 1998
			Reported:	Dec 31, 1998

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	Detection Limit mg/L (ppm)	High B.P. Hydrocarbons mg/L (ppm)	Chromatogram Description
812-5107	MW-11	1,000	11,000	Early Elevated Baseline

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 18, 1998
30 Tollgate Rd., Suite D	Matrix Descript:	Water	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 5030/8015		
Attention: Jeff Nelson	First Sample #:	812-5107	Analyzed:	Dec 30, 1998
			Reported:	Dec 31, 1998

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	Detection Limit µg/L (ppb)	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Chromatogram Description
812-5107	MW-11	50	450,000	Elevated Baseline, Late Gas Range

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: J-21 – G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5102	Analyzed:	Dec 28, 1998
			Reported:	Dec 31, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
ı,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: N-24 - G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5105	Analyzed:	Dec 28, 1998
			Reported:	Dec 31, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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:vine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
,30 Tollgate Rd., Suite D	Sample Descript:	Water: O-16 – G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5106	Analyzed:	Dec 28, 1998
			Reported:	Dec 31, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: MW-25	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5109	Analyzed:	Dec 29-30, 1998
			Reported:	Dec 31, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	130A
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	29
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1-Dichloroethane	5.0	N.D.
,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	20
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	350

Analytes reported as N.D. were not present above the stated limit of detection.

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Please Note:
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.

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ɜvine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 18, 1998
ɔ30 Tollgate Rd., Suite D	Sample Descript:	Soil: MW-27	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5110	Analyzed:	Dec 29, 1998
			Reported:	Dec 31, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	63A
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1-Dichloroethane	5.0	N.D.
ı,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	5.7
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	14

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
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Please Note:
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.

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Accreditations Certifications: Delaware [illegible] Illinois EPA [illegible] New Jersey DEP [illegible] New York DOH [illegible]
Tennessee DOH [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: J-21 – G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8310	Extracted:	Dec 24, 1998
Attention: Jeff Nelson	Lab Number:	812-5102	Analyzed:	Dec 26, 1998
			Reported:	Dec 31, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	0.000072
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
fluoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: N-24 – G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8310	Extracted:	Dec 24, 1998
Attention: Jeff Nelson	Lab Number:	812-5105	Analyzed:	Dec 26, 1998
			Reported:	Dec 31, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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8125107.mau <9>

Accreditations/Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54[illegible], New York DOH-11487
Tennessee DOH [illegible], Tennessee DEC, USACE, Virginia [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 16, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: O-16 – G	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8310	Extracted:	Dec 24, 1998
Attention: Jeff Nelson	Lab Number:	812-5106	Analyzed:	Dec 26, 1998
			Reported:	Dec 31, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 17, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: MW-25	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8310	Extracted:	Dec 29, 1998
Attention: Jeff Nelson	Lab Number:	812-5109	Analyzed:	Dec 29, 1998
			Reported:	Dec 31, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	N.D.
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	N.D.
Benzo (a) pyrene	0.0087	N.D.
Benzo (b) fluoranthene	0.0087	N.D.
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	N.D.
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	N.D.
Fluorene	0.0087	N.D.
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	0.024
henanthrene	0.0087	N.D.
yrene	0.0087	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 18, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Soil: MW-27	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 8310	Extracted:	Dec 29, 1998
Attention: Jeff Nelson	Lab Number:	812-5110	Analyzed:	Dec 31, 1998
			Reported:	Dec 31, 1998

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene	0.0087	0.039
Acenaphthylene	0.20	N.D.
Anthracene	0.0087	N.D.
Benzo (a) anthracene	0.0087	0.0090
Benzo (a) pyrene	0.0087	0.0093
Benzo (b) fluoranthene	0.0087	0.012
Benzo (ghi) perylene	0.0087	N.D.
Benzo (k) fluoranthene	0.0087	N.D.
Chrysene	0.0087	0.013
Dibenzo (a,h) anthracene	0.0087	N.D.
Fluoranthene	0.0087	0.076
Fluorene	0.0087	0.013
Indeno (1,2,3-cd) pyrene	0.0087	N.D.
Naphthalene	0.0087	0.056
henanthrene	0.0087	0.017
yrene	0.0087	0.023

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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8125107.mau <12>

Accreditations/Certifications: Delaware IL 0[illegible], Illinois EPA [illegible], New Jersey DEP 54001, New York DOH 11487;
Tennessee DOH [illegible], Tennessee DEC [illegible], Wisconsin DNR [illegible]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 12-18-98	Serial No.:
Project Name: Johns Manville	Field Logbook No.: NA		
Sampler (Signature): Jeffrey S Nelson			Samplers: JSN

SAMPLES						ANALYSES							
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310	TPH * Gas+Diesel			HOLD	RUSH	REMARKS
J-21-G	12/16/98	0845		5	Water	x	x		8125103				Send analytical results
N-24-G	↓	1000		5	↓	x	x		8125105				to Jeff Nelson
O-16-G	↓	1105		5	↓	x	x		8125106				
MW-11	12/18/98	1000		1	↓			x	8125107				* Pls indicate what the
MW-25	12/17/98	1600		2	Soil	x	x		8125109				compound is against all
MW-27	12/18/98	1000		2	↓	x	x		8125110				TPH standards

RELINQUISHED BY: (Signature) Jeffrey S Nelson	DATE 12/21/98	TIME	RECEIVED BY: (Signature) [illegible]	DATE 12-21-98	TIME 15:00
RELINQUISHED BY: (Signature) [illegible]	DATE 12/21	TIME 1630	RECEIVED BY: (Signature) [illegible] 12/23	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical
Buffalo Grove, IL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 18, 1998
30 Tollgate Rd., Suite D	Matrix Descript:	Water	Received:	Dec 23, 1998
Elgin, IL 60123	Analysis Method:	EPA 3510/8015	Extracted:	Dec 29, 1998
Attention: Jeff Nelson	First Sample #:	812-5107	Analyzed:	Dec 31, 1998
			Reported:	Dec 31, 1998

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	Detection Limit mg/L (ppm)	High B.P. Hydrocarbons mg/L (ppm)	Chromatogram Description
812-5107	MW-11	1,000	11,000	Early Elevated Baseline, Mineral Oil Pattern

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8125107.mau <1>

Quantitation Report

Data File : C:\HPCHEM\6\DATA\123198A\F007.D
Acq On : 31 Dec 98 01:05 PM
Sample : 5107
Misc : GC-10f| 760ml-10ml 1000x
Quant Time: Dec 31 13:48 1998

Vial: 7
Operator:
Inst : GC-10
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\DROFRO.M
Title :
Last Update : Tue Dec 29 07:58:16 1998
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S DOTRIACONTANE	0.00	0	N.D. Ug/UL
Target Compounds			
2) H WI D.R.O.	11.42	53098712	0.83 Ug/UL

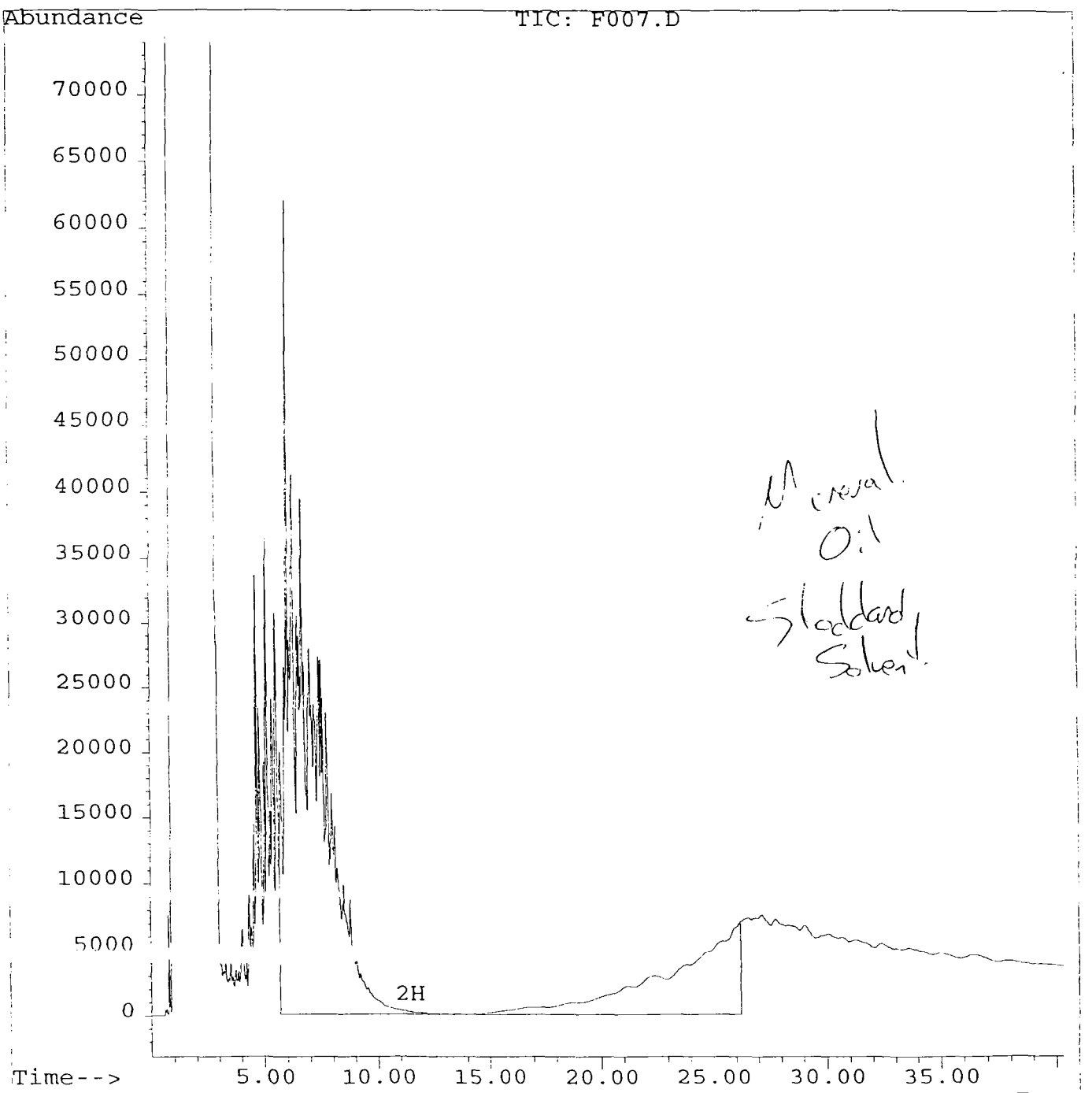
Quantitation Report

Data File : C:\HPCHEM\6\DATA\123198A\F007.D
Acq On : 31 Dec 98 01:05 PM
Sample : 5107
Misc : GC-10f| 760ml-10ml 1000x
Quant Time: Dec 31 13:48 1998

Vial: 7
Operator:
Inst : GC-10
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\DROFRO.M
Title :
Last Update : Tue Dec 29 07:58:16 1998
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\Dec30\5G_12.D\ADC1A.CH Vial: 14
Signal #2 : C:\HPCHEM\2\DATA\Dec30\5G_12.D\ADC1B.CH
Acq On : 31 Dec 98 1:14 pm Operator: NS
Sample : 5107 Inst : GC-5
Misc : Multiplr: 500.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Dec 31 13:42 1998 Quant Results File: GP1109.RES

Quant Method : C:\HPCHEM\2\METHODS\GP1109.M
Title :
Last Update : Tue Dec 15 17:15:11 1998
Response via : Multiple Level Calibration
DataAcq Meth : GP1109.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Trifluorotoluene	7.92	5144598	20.000 ppb
System Monitoring Compounds			
4) S Bromofluorobenzene	18.35	13275579	19.403 ppb
Surrogate Spike 20.000 Range 80 - 134		Recovery =	97.02%
Target Compounds			
2) MCT Methyl-tert-butyl ether	0.00	0	N.D. ppb
3) MCT Benzene	0.00	0	N.D. ppb
5) MCT Toluene	0.00	0	N.D. ppb
6) MCT Ethylbenzene	0.00	0	N.D. ppb
7) MCTL m,p-xylene	15.64	938133	562.185 ppb
8) MCTL o-xylene	0.00	0	N.D. ppb
Sum m,p-xylene		938133	562.185 ppb
Average m,p-xylene			562.185 ppb
9) MCT 1,3,5-Trimethylbenzene	19.26	10383276	5021.250 ppb
10) MCT 1,2,4-Trimethylbenzene	19.82	17541873	10889.370 ppb
11) T Naphthalene	21.47	3361155	1973.717 ppb
13) HTMC WDNR GRO	3.08	278237019	232680.917 ppb
14) HMTC TPH	18.44	277352294	447798.472 ppb

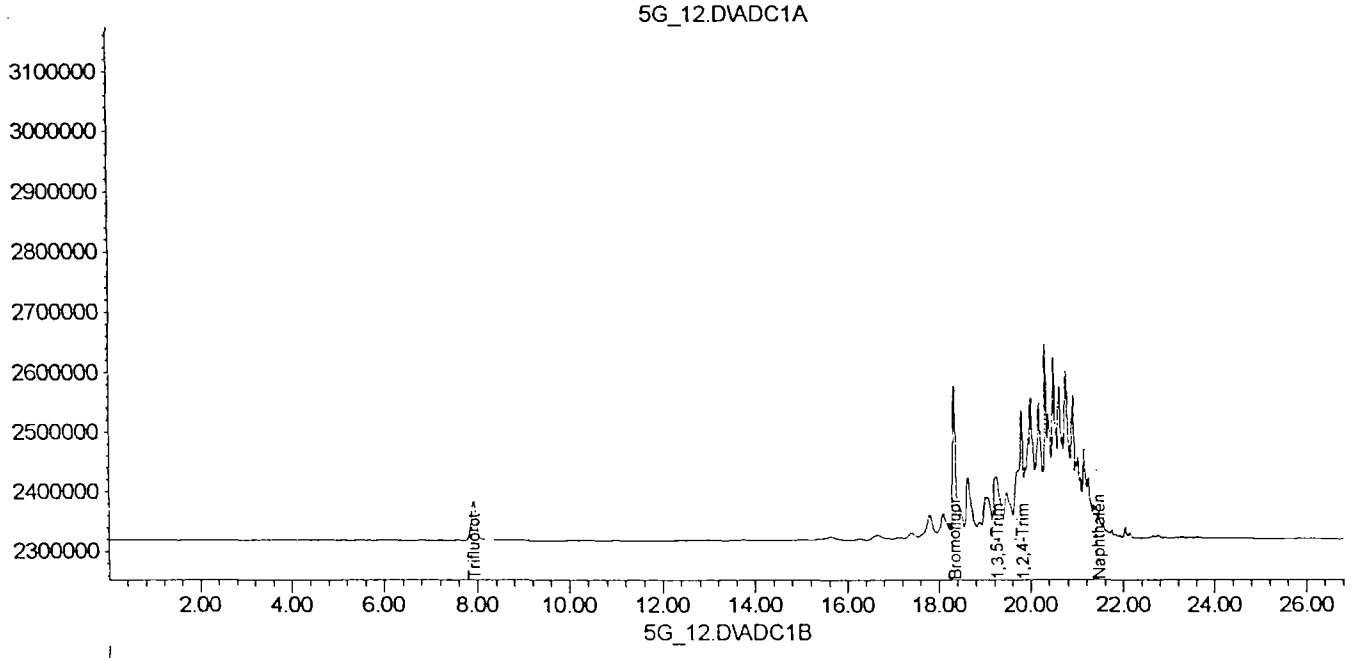
(f)=RT Delta > 1/2 Window (m)=manual int.

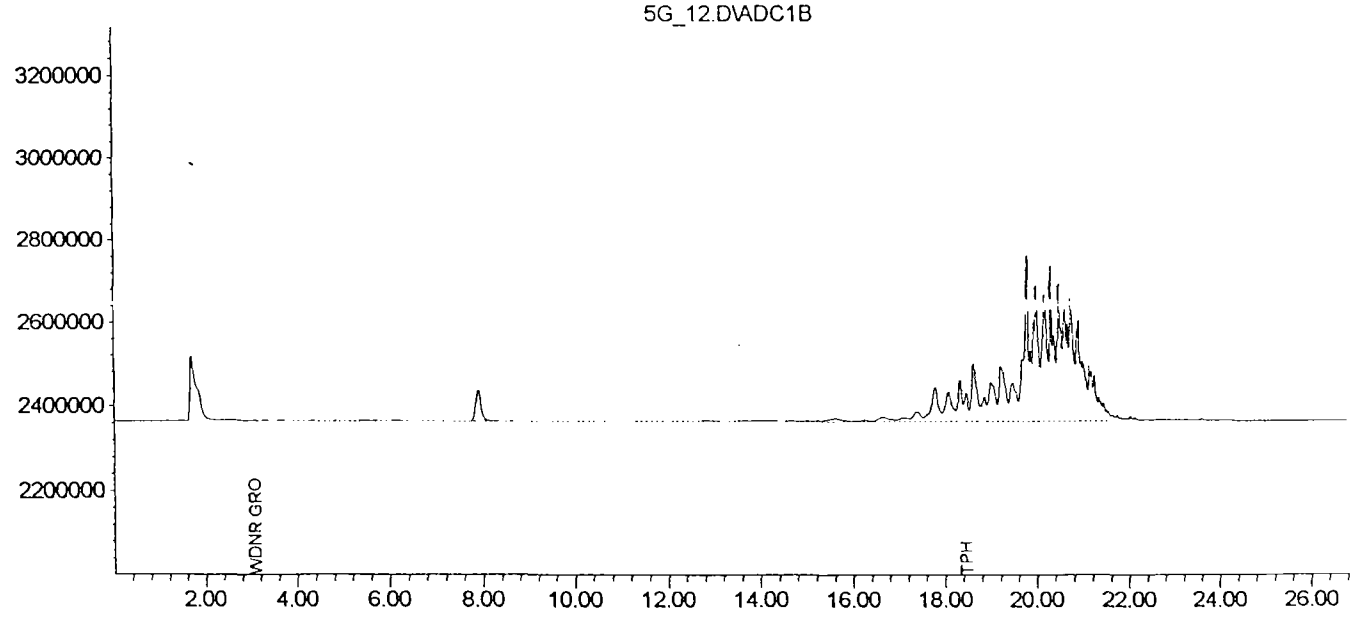
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\Dec30\5G_12.D\ADC1A.CH Vial: 14
Signal #2 : C:\HPCHEM\2\DATA\Dec30\5G_12.D\ADC1B.CH
Acq On : 31 Dec 98 1:14 pm Operator: NS
Sample : 5107 Inst : GC-5
Misc : Multiplr: 500.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Dec 31 13:42 1998 Quant Results File: GP1109.RES

Quant Method : C:\HPCHEM\2\METHODS\GP1109.M
Title :
Last Update : Tue Dec 15 17:15:11 1998
Response via : Multiple Level Calibration
DataAcq Meth : GP1109.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 12-18-98	Serial No.:
Project Name: Johns Manville	Field Logbook No.: NA		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JSN

ANALYSES

SAMPLES														
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310	TPH * Gas + Diesel				HOLD	RUSH	REMARKS
J-21	12/16/98	0845		5	Water	x	x		8125104					Send analytical results
N-24	↓	1000		5	↓	x	x		8125105					to Jeff Nelson
O-16	↓	1105		5	↓	x	x		8125106					
MW-11	12/18/98	1000		1	↓			x	8125107					* Pls indicate what the
MW-25	12/17/98	1600		2	Soil	x	x		8125109					compound is against all
MW-27	12/18/98	1000		2	↓	x	x		8125110					TPH standards

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 12/21/98	TIME	RECEIVED BY: (Signature) [signature]	DATE 12-21-98	TIME 15:00
RELINQUISHED BY: (Signature) [signature]	DATE 12.21	TIME 1630	RECEIVED BY: (Signature) [signature] 12/23	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical
Buffalo Grove, IL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: January 5, 1999

.evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00, Johns Manville

Enclosed are the results from 1 water sample received at Great Lakes Analytical on December 28, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8125449	Water: E-5	12/21/98	VOC, EPA 8260 PNA, EPA 8310

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you n this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54001, New York DOH-11487, Tennessee DOH [illegible], Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR [illegible]

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 21, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: E-5	Received:	Dec 28, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	812-5449	Analyzed:	Jan 4, 1999
			Reported:	Jan 5, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8125449.lfr <1>

Accreditations, Certifications: Delaware II [illegible], Illinois EPA [illegible], New Jersey DEP [illegible], New York DOH 11487, Tennessee DOH [illegible], Tennessee DEC [illegible], USACE, Virginia [illegible], Wisconsin DNR [illegible]

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Dec 21, 1998
30 Tollgate Rd., Suite D	Sample Descript:	Water: E-5	Received:	Dec 28, 1998
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Dec 29, 1998
Attention: Jeff Nelson	Lab Number:	812-5449	Analyzed:	Jan 5, 1999
			Reported:	Jan 5, 1999

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	0.0058
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	0.00030
Benzo (a) anthracene	0.000010	0.00050
Benzo (a) pyrene	0.000010	0.0025
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ibenzo (a,h) anthracene	0.000020	N.D.
luoranthene	0.0010	0.060
Fluorene	0.0010	0.017
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	0.014
Phenanthrene	0.00030	0.021
Pyrene	0.0010	0.0010

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
This sample was extracted outside the 14-day holding time.

8125449.llr <2>

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 12/28/98	Serial No.:
Project Name: Johns Manville	Field Logbook No.: NA →		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JSN

ANALYSES

SAMPLES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310					HOLD	RUSH	REMARKS
E-5	12-21-98	1205		5	Water	x	x			8125449				Analytical results to: Jeff Nelson

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 12/28/98	TIME 1020	RECEIVED BY: (Signature) [illegible]	DATE 12-28	TIME 2:35
RELINQUISHED BY: (Signature) [illegible]	DATE 12-28	TIME 15:30	RECEIVED BY: (Signature) [illegible]	DATE 12/28	TIME 1530
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical
Buffalo Grove, IL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: January 20, 1999

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: 6779.00, Johns Manville

Enclosed are the results from 4 water samples received at Great Lakes Analytical on January 14, 1999. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9010143-01	Water: MW-26	1/12/99	VOC, EPA 8260 PNA, EPA 8310
9010143-02	Water: MW-24	1/12/99	VOC, EPA 8260 PNA, EPA 8310 TPH-Mineral Spirits, EPA 3510/8015
9010143-03	Water: MW-25	1/12/99	VOC, EPA 8260 PNA, EPA 8310
9010143-04	Water: MW-27	1/12/99	VOC, EPA 8260 PNA, EPA 8310

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP 54004; New York DOH-11497
Tennessee DOH-02801; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR [illegible]

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
530 Tollgate Rd., Suite D	Matrix Descript:	Water	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	TPH as Mineral Spirits, EPA 3510/80	Extracted:	Jan 15, 1999
Attention: Jeff Nelson	First Sample #:	9010143-02	Analyzed:	Jan 19, 1999
			Reported:	Jan 20, 1999

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	Detection Limit mg/L (ppm)	High B.P. Hydrocarbons mg/L (ppm)	Chromatogram Description
9010143-02	MW-24	0.10	7.8	Early Elevated Baseline, Diesel Range, Mineral Spirits Range, Non Characteristic Mineral Spirits Pattern

High Boiling Point Hydrocarbons are quantitated against a mineral spirits standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
The laboratory control spike recoveries associated with this sample were below the laboratory's established acceptance criteria.
B = The blank associated with sample contained .10 mg/L.

9010143-02.LFR <1>

[illegible] Delaware IL 069, Illinois EPA 10[illegible] New Jersey DEP 54001; New York DOH-11437
[illegible] DOH [illegible] Tennessee DEC [illegible] ISACC [illegible] DNR [illegible]

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
,30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-26	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9010143-01	Analyzed:	Jan 22, 1999
			Reported:	Jan 25, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	**100**	**210B**
Benzene	**20**	**4,400**
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
2-Butanone	100	N.D.
Carbon disulfide	20	N.D.
Carbon tetrachloride	20	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	20	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	20	N.D.
Chloromethane	20	N.D.
1,1-Dichloroethane	20	N.D.
1,2-Dichloroethane	20	N.D.
,1-Dichloroethene	20	N.D.
cis 1,2-Dichloroethene	20	N.D.
trans 1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis 1,3-Dichloropropene	20	N.D.
trans 1,3-Dichloropropene	20	N.D.
Ethylbenzene	**20**	**820**
2-Hexanone	100	N.D.
Methylene chloride	20	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	20	N.D.
Toluene	**20**	**3,200**
1,1,1-Trichloroethane	**20**	**45**
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	**20**	**79**
Trichlorofluoromethane	20	N.D.
Vinyl acetate	20	N.D.
Vinyl chloride	20	N.D.
Total Xylenes	**20**	**1,700**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
B = The blank associated with this sample contained 36 ug/L of Acetone.

9010143-02.LFR <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-24	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9010143-02	Analyzed:	Jan 22, 1999
			Reported:	Jan 25, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	100	N.D.
Benzene	20	N.D.
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
2-Butanone	100	N.D.
Carbon disulfide	20	N.D.
Carbon tetrachloride	20	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	20	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	20	N.D.
Chloromethane	20	N.D.
1-Dichloroethane	20	N.D.
,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	20	N.D.
cis 1,2-Dichloroethene	20	N.D.
trans 1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis 1,3-Dichloropropene	20	N.D.
trans 1,3-Dichloropropene	20	N.D.
Ethylbenzene	**20**	**29**
2-Hexanone	100	N.D.
Methylene chloride	20	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	20	N.D.
Toluene	20	N.D.
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	20	N.D.
Trichlorofluoromethane	20	N.D.
Vinyl acetate	20	N.D.
Vinyl chloride	20	N.D.
Total Xylenes	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <3>

Accreditations Certifications: Delaware IL 062 Illinois EPA 100261 New Jersey DEP-54001 New York DOH-11487
Tennessee DOH 02804 Tennessee DEC USACE Virginia 3164 Wisconsin DNR 039917160

GREAT LAKES ANALYTICAL

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(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-25	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9010143-03	Analyzed:	Jan 22, 1999
			Reported:	Jan 25, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	100	N.D.
Benzene	20	N.D.
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
2-Butanone	100	N.D.
Carbon disulfide	20	N.D.
Carbon tetrachloride	20	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	20	N.D.
2-Chloroethyl vinyl ether	100	N.D.
Chloroform	20	N.D.
Chloromethane	20	N.D.
1-Dichloroethane	20	N.D.
,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	20	N.D.
cis 1,2-Dichloroethene	20	N.D.
trans 1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis 1,3-Dichloropropene	20	N.D.
trans 1,3-Dichloropropene	20	N.D.
Ethylbenzene	**20**	**120**
2-Hexanone	100	N.D.
Methylene chloride	20	N.D.
4-Methyl-2-pentanone	100	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	20	N.D.
Toluene	**20**	**88**
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	20	N.D.
Trichlorofluoromethane	20	N.D.
Vinyl acetate	20	N.D.
Vinyl chloride	20	N.D.
Total Xylenes	**20**	**960**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <4>

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-27	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9010143-04	Analyzed:	Jan 22, 1999
			Reported:	Jan 25, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
,1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**10**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	**2.0**	**3.9**
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	**2.0**	**18**

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <5>

Accreditations/Certifications: Delaware IL 069; Illinois EPA 100201; New Jersey DEP 54001; New York DOH 11487; Tennessee DOH 02974; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR 998317160

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
530 Tollgate Rd., Suite D	Sample Descript:	Water: MW-26	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Jan 15, 1999
Attention: Jeff Nelson	Lab Number:	9010143-01	Analyzed:	Jan 15, 1999
			Reported:	Jan 20, 1999

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	**0.000010**	**0.000060**
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	**0.000010**	**0.000030**
Chrysene	**0.000050**	**0.000080**
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	**0.0030**	**0.22**
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <6>

Accreditations Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54001, New York DOH 11487, Tennessee DOH [illegible], Tennessee DEC, USACE, Virginia [illegible], Wisconsin DNR [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
530 Tollgate Rd., Suite D	Sample Descript:	Water: MW-24	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Jan 15, 1999
Attention: Jeff Nelson	Lab Number:	9010143-02	Analyzed:	Jan 15, 1999
			Reported:	Jan 20, 1999

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	**0.000010**	**0.000030**
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
Fluorene	**0.0010**	**0.0012**
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	**0.0030**	**0.043**
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <7>

[illegible] Illinois EPA 100261, New Jersey DEP 54001, New York DOH 11497
[illegible] DEC, USACE, Virginia [illegible], Wisconsin DNR [illegible]

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ɔvine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
ɔ30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-25	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Jan 15, 1999
Attention: Jeff Nelson	Lab Number:	9010143-03	Analyzed:	Jan 15, 1999
			Reported:	Jan 20, 1999

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	0.000010	N.D.
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	0.000010	N.D.
Chrysene	0.000050	N.D.
ʼibenzo (a,h) anthracene	0.000020	N.D.
,-fluoranthene	0.0010	N.D.
Fluorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <8>

[illegible] IL 069, Illinois EPA 100261, New Jersey DEP [illegible], New York DOH 11497
[illegible] DOH [illegible], Tennessee DEC, USACE, Virginia [illegible], Washington DOE [illegible]

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evine-Fricke-Recon	Client Project ID:	6779.00, Johns Manville	Sampled:	Jan 12, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW-27	Received:	Jan 14, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8310	Extracted:	Jan 15, 1999
Attention: Jeff Nelson	Lab Number:	9010143-04	Analyzed:	Jan 15, 1999
			Reported:	Jan 20, 1999

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Acenaphthene	0.0050	N.D.
Acenaphthylene	0.0040	N.D.
Anthracene	0.00020	N.D.
Benzo (a) anthracene	**0.000010**	**0.000020**
Benzo (a) pyrene	0.000010	N.D.
Benzo (b) fluoranthene	0.000020	N.D.
Benzo (ghi) perylene	0.000060	N.D.
Benzo (k) fluoranthene	**0.000010**	**0.000010**
Chrysene	0.000050	N.D.
Dibenzo (a,h) anthracene	0.000020	N.D.
Fluoranthene	0.0010	N.D.
luorene	0.0010	N.D.
Indeno (1,2,3-cd) pyrene	0.00020	N.D.
Naphthalene	0.0030	N.D.
Phenanthrene	0.00030	N.D.
Pyrene	0.0010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

9010143-02.LFR <9>

Accreditations Certifications: Delaware IL 069, Illinois EPA 100261, New Jersey DEP 54001, New York DOH 11487, Tennessee DOH 02801, Tennessee DEC, USACE, Virginia 00164, Wisconsin DNR [illegible]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6779.00	Project Location: Waukegan, IL	Date: 1/13/99	Serial No.:
Project Name: Johns Manville	Field Logbook No.: NA →		
Sampler (Signature): Jeffrey S. Nelson			Samplers: JSN

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	VOCs 8260	PNAs 8310	TPH as Mineral Spirits				HOLD	RUSH	REMARKS
MW-26	1/12/99	0950		5	Water	X	X		9010143-01					Send report/analyticals
MW-24	↓	1040		6	↓	X	X	X	9010143-02					to ~~Jeff Nelson~~
MW-25	↓	1135		5	↓	X	X		9010143-03					Bill Bow
MW-27	↓	1205		5	↓	X	X		9010143-04					

RELINQUISHED BY: (Signature) Jeffrey S. Nelson	DATE 1/14/99	TIME 1530	RECEIVED BY: (Signature) [illegible]	DATE 1-14	TIME 1530
RELINQUISHED BY: (Signature) [illegible]	DATE 1-14	TIME 1615	RECEIVED BY: (Signature) K. Kahll	DATE 1/14	TIME 1615
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory: Great Lakes Analytical
Buffalo Grove, IL

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

GREAT LAKES ANALYTICAL

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Date: March 15, 1999

evine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123-9364
Attention: Jeff Nelson

Project: J. Manville, Waukegan

Enclosed are the results from 2 water samples received at Great Lakes Analytical on March 5, 1999. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9030088-01	Water: MW25	3/5/99	VOC, EPA 8260 SVOC, EPA 8270
9030088-02	Water: MW26	3/5/99	VOC, EPA 8260

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Illinois EPA-100261, New Jersey DEP-54001, New York DOH-11487,
USACE Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	J. Manville, Waukegan	Sampled:	Mar 5, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW25	Received:	Mar 5, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9030088-01	Analyzed:	Mar 12, 1999
			Reported:	Mar 15, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1-Dichloroethane	2.0	N.D.
,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	**2.0**	**120**
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	**2.0**	**7.5**
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

903008801.LFR <1>

GREAT LAKES ANALYTICAL

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evine-Fricke-Recon	Client Project ID:	J. Manville, Waukegan	Sampled:	Mar 5, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW26	Received:	Mar 5, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8260		
Attention: Jeff Nelson	Lab Number:	9030088-02	Analyzed:	Mar 12, 1999
			Reported:	Mar 15, 1999

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	500	N.D.
Benzene	**100**	**3,200**
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chlorodibromomethane	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
1-Dichloroethane	100	N.D.
,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis 1,2-Dichloroethene	100	N.D.
trans 1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis 1,3-Dichloropropene	100	N.D.
trans 1,3-Dichloropropene	100	N.D.
Ethylbenzene	**100**	**880**
2-Hexanone	500	N.D.
Methylene chloride	100	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	**100**	**3,500**
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	100	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	**100**	**4,100**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

903008801.LFR <2>

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evine-Fricke-Recon	Client Project ID:	J. Manville, Waukegan	Sampled:	Mar 5, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW25	Received:	Mar 5, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8270	Extracted:	Mar 9, 1999
Attention: Jeff Nelson	Lab Number:	9030088-01	Analyzed:	Mar 9, 1999
			Reported:	Mar 15, 1999

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene	2.0	N.D.
Acenaphthylene	2.0	N.D.
Aniline	2.0	N.D.
Anthracene	2.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	2.0	N.D.
Benzo(b)fluoranthene	2.0	N.D.
Benzo(k)fluoranthene	2.0	N.D.
Benzo(g,h,i)perylene	2.0	N.D.
Benzo(a)pyrene	2.0	N.D.
Benzyl alcohol	2.0	N.D.
Bis(2-chloroethoxy)methane	2.0	N.D.
Bis(2-chloroethyl)ether	2.0	N.D.
Bis(2-chloroisopropyl)ether	2.0	N.D.
is(2-ethylhexyl)phthalate	10	N.D.
+-Bromophenyl phenyl ether	2.0	N.D.
Butyl benzyl phthalate	2.0	N.D.
4-Chloroaniline	2.0	N.D.
2-Chloronaphthalene	2.0	N.D.
4-Chloro-3-methylphenol	2.0	N.D.
2-Chlorophenol	2.0	N.D.
4-Chlorophenyl phenyl ether	2.0	N.D.
Chrysene	2.0	N.D.
Dibenzo(a,h)anthracene	2.0	N.D.
Dibenzofuran	2.0	N.D.
Di-N-butyl phthalate	10	N.D.
Di-N-octyl phthalate	2.0	N.D.
1,3-Dichlorobenzene	2.0	N.D.
1,4-Dichlorobenzene	2.0	N.D.
1,2-Dichlorobenzene	2.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	2.0	N.D.
Diethyl phthalate	2.0	N.D.
2,4-Dimethylphenol	**2.0**	**62**
Dimethyl phthalate	2.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.

Accreditations/Certifications: Illinois EPA-100261, New Jersey DEP-54001, New York DOH-11487, USACE, Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

evine-Fricke-Recon	Client Project ID:	J. Manville, Waukegan	Sampled:	Mar 5, 1999
30 Tollgate Rd., Suite D	Sample Descript:	Water: MW25	Received:	Mar 5, 1999
Elgin, IL 60123-9364	Analysis Method:	EPA 8270	Extracted:	Mar 9, 1999
Attention: Jeff Nelson	Lab Number:	9030088-01	Analyzed:	Mar 9, 1999
			Reported:	Mar 15, 1999

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
2,4-Dinitrotoluene	2.0	N.D.
2,6-Dinitrotoluene	2.0	N.D.
Fluoranthene	2.0	N.D.
Fluorene	2.0	N.D.
Hexachlorobenzene	2.0	N.D.
Hexachlorobutadiene	2.0	N.D.
Hexachlorocyclopentadiene	2.0	N.D.
Hexachloroethane	2.0	N.D.
Indeno(1,2,3-cd)pyrene	2.0	N.D.
Isophorone	2.0	N.D.
2-Methylnaphthalene	2.0	N.D.
2-Methylphenol	2.0	5.0
4-Methylphenol	2.0	5.0
Naphthalene	2.0	N.D.
-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	2.0	N.D.
2-Nitrophenol	2.0	N.D.
4-Nitrophenol	10	N.D.
N-Nitrosodiphenylamine	2.0	N.D.
N-Nitroso-di-N-propylamine	2.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	2.0	N.D.
Phenol	2.0	N.D.
Pyrene	2.0	N.D.
1,2,4-Trichlorobenzene	2.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

903008801.LFR <4>

Accreditations/Certifications: Illinois EPA-100261, New Jersey DEP-54001, New York DOH-11487, USACE; Wisconsin DNR-999917160

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.:	Project Location: Waukeegan	Date: 3/5/99	Serial No.:
Project Name: J. MANVILLE	Field Logbook No.:		
Sampler (Signature): [signature]			Samplers: BSB/DTK

SAMPLES / ANALYSES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	8260	8270					HOLD	RUSH	REMARKS
MW25	3/5/99	0945		5	Water	X	X							903008801
MW26	3/5/99	1047		3	Water	X								903008802

RELINQUISHED BY: (Signature) [signature]	DATE 3/5/99	TIME 1257	RECEIVED BY: (Signature) K. Kull	DATE 3/5/99	TIME 1257
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
630 Tollgate Road, Suite D
Elgin, Illinois 60123-9364
(847) 695-8855

Analytical Laboratory:

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

COC.CDR 101596

TestAmerica
INCORPORATED

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Job Number: 00.04312

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: JM Waukegan

Sample Number	Sample Description	Date Taken	Date Received
577465	JM-~~UST~~ "039"-GW	04/27/2000	04/28/2000
577466	JM-~~UST~~ "039"-NW-3.5	04/27/2000	04/28/2000
577467	JM-~~UST~~ "039"-SW-3.5	04/27/2000	04/28/2000
577468	JM-~~UST~~ "039"-WW-3.5	04/27/2000	04/28/2000
577469	JM-~~UST~~ "039"-EW-3	04/27/2000	04/28/2000

WOT 7/25/00

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson

Mary Pearson
Project Manager

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Sample No. : 577465

Job No.: 00.04312

Sample Description: JM-~~UST~~ "039" -GW
JM Waukegan

WAT 7/25/00

Date Taken: 04/27/2000
Time Taken: 11:30

Date Received: 04/28/2000
Time Received: 11:43

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	250		ug/L	1.0	05/02/2000	mjo	SW 8260B
Ethyl Benzene	4.8		ug/L	1.0	05/02/2000	mjo	SW 8260B
Toluene	18		ug/L	1.0	05/02/2000	mjo	SW 8260B
Xylenes, Total	20		ug/L	3.0	05/02/2000	mjo	SW 8260B
Surr: Toluene-d8	104.0		%	84-115	05/02/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	96.0		%	79-122	05/02/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	102.0		%	75-124	05/02/2000	mjo	SW 8260B

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Sample No. : 577466

Job No.: 00.04312

wet 7/25/00

Sample Description: JM-~~UST~~ "039"-NW-3.5
JM Waukegan

Date Taken: 04/27/2000
Time Taken: 11:40

Date Received: 04/28/2000
Time Received: 11:43

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	94.5		%	0.1	05/03/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	5.6		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Toluene	12		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Ethyl benzene	<5.3		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Xylenes, total	<15.9		ug/kg dw	15.9	05/01/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	05/01/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	98.0		%	62-127	05/01/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	05/01/2000	mjo	SW 8260B
Method 5035 Sample Weight	4.98		grams		05/01/2000	mjo	SW 5035

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Sample No. : 577467

Job No.: 00.04312

WO 7/25/00

"039"

Sample Description: JM-~~UST~~-SW-3.5
JM Waukegan

Date Taken: 04/27/2000
Time Taken: 11:50

Date Received: 04/28/2000
Time Received: 11:43

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	78.3		%	0.1	05/03/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	7.5		ug/kg dw	6.4	05/01/2000	mjo	SW 8260B
Toluene	14		ug/kg dw	6.4	05/01/2000	mjo	SW 8260B
Ethyl benzene	<6.4		ug/kg dw	6.4	05/01/2000	mjo	SW 8260B
Xylenes, total	<19.2		ug/kg dw	19.2	05/01/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	05/01/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	100.0		%	62-127	05/01/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	05/01/2000	mjo	SW 8260B
Method 5035 Sample Weight	4.80		grams		05/01/2000	mjo	SW 5035

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Sample No. : 577468

Job No.: 00.04312

WS 7/25/00

"039"

Sample Description: JM-~~UST~~-WW-3.5
JM Waukegan

Date Taken: 04/27/2000
Time Taken: 12:00

Date Received: 04/28/2000
Time Received: 11:43

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	85.7		%	0.1	05/03/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	6.1		ug/kg dw	5.8	05/01/2000	mjo	SW 8260B
Toluene	11		ug/kg dw	5.8	05/01/2000	mjo	SW 8260B
Ethyl benzene	<5.8		ug/kg dw	5.8	05/01/2000	mjo	SW 8260B
Xylenes, total	<17.5		ug/kg dw	17.5	05/01/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	05/01/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	98.0		%	62-127	05/01/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	05/01/2000	mjo	SW 8260B
Method 5035 Sample Weight	4.48		grams		05/01/2000	mjo	SW 5035

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

05/04/2000

Sample No. : 577469

Job No.: 00.04312

WS 7/25/00

"039"

Sample Description: JM-~~UST~~-EW-3
JM Waukegan

Date Taken: 04/27/2000
Time Taken: 12:05

Date Received: 04/28/2000
Time Received: 11:43

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.8		%	0.1	05/03/2000	pjf	SM 2540
Organic Matter (Geotechnical)	0.47		%	0.1	05/03/2000	lmf	ASTM 2974-87C
UST VOLATILES 8260-NONAQUEOUS							
Benzene	5.5		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Toluene	10		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Ethyl benzene	<5.3		ug/kg dw	5.3	05/01/2000	mjo	SW 8260B
Xylenes, total	<16.0		ug/kg dw	16.0	05/01/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	05/01/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	100.0		%	62-127	05/01/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	05/01/2000	mjo	SW 8260B
Method 5035 Sample Weight	5.16		grams		05/01/2000	mjo	SW 5035

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<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

Chain of Custody Record

TESTAMERICA INC.

Page____ of ____

☐ Asheville, NC (A) (828) 254-5169	☐ Bartlett, IL (C) (630) 289-3100	☐ Cedar Falls, IA (E) (319) 277-2401	☐ Charlotte, NC (G) (704) 392-1164	☐ Dayton, OH (I) (937) 294-6856	☐ Lumberton, NC (K) (910) 738-6190	☐ Nashville, TN (M) (615) 726-0177	☐ Pontiac, MI (O) (248) 332-1940	☐ Rockford. Il (Q) (815) 874-2171
☐ Atlanta, GA (B) (770) 368-0636	☐ Brighton, CO (D) (303) 659-0497	☐ Charleston, SC (F) (843) 849-6550	☐ Columbia, SC (H) (803) 796-8989	☐ Davenport. IA (J) (319) 323-7944	☐ Indianapolis, IN (L) (317) 842-4261	☐ Macon, GA (N) (912) 757-0811	☐ Orlando, FL (P) (407) 851-2560	☐ Watertown, WI (R) (920) 261-1660

Client: CADDIS, Inc

Project No.: JM Waukegan

Report Address: 1121 E. Main St. Ste 150 St. Charles IL 60174

Invoice Address: Same

Attn: John Chitwood

Attn: Same

Phone No.: (630) 587-5306

Sampled By: J. Chitwood

Fax No.: (630) 587-5348

P.O. No:

Quote No.

State Samples Collected IL

TURNAROUND TIME

☒ Standard

☐ Rush (surcharges may apply) Date Needed: ____

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes__ No X

Is this work being conducted for regulatory enforcement action? Yes__ No X

Which regulations apply:
RCRA___ NPDES Wastewater___
UST X Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	BTEX 8260	TOC	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
JM-UST-GW	4/27	1130	G	W		X		3						40 ml vials
JM-UST-NW-3.5'	4/27	1140	G	S		X		4				3	1	5035 sample bottles
JM-UST-SW-3.5	4/27	1150	G	S		X						3	1	"
JM-UST-WW-3.5	4/27	1200	G	S		X						3	1	"
JM-UST-EW-3	4/27	1205	G	S		X	X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp

5°C on ice
Rec Lab Temp

COMMENTS:

Relinquished By: John Chitwood	Date 4/28 Time 1143	Received By: K. Walton	Date 4-28-00 Time 1143	LAB USE ONLY:	
Relinquished By:	Date Time	Received By:	Date Time		
Relinquished By:	Date Time	Received By:	Date Time	Custody Seal: ☐ Yes ☐ No ☒ N/A	
			Date Time	Bottles Supplied by TA: ☐ Yes ☐ No	

TestAmerica
INCORPORATED

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Job Number: 00.06597

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #JM SR

Sample Number	Sample Description	Date Taken	Date Received
585736	JM-SR-SB01-1-2	06/21/2000	06/22/2000
585737	JM-SR-SB02-1-2	06/21/2000	06/22/2000
585738	JM-SR-SB04-2-3	06/21/2000	06/22/2000
585739	JM-SR-SB05-2-3	06/21/2000	06/22/2000
585740	JM-SR-SB07-6-7	06/21/2000	06/22/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Mary Pearson

Mary Pearson
Project Manager

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585736

Job No.: 00.06597

Sample Description: JM-SR-SB01-1-2
Proj. #JM SR

Date Taken: 06/21/2000
Time Taken: 09:25

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	96.8		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<124	MDL	ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Toluene	382,000		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Ethyl benzene	1,240		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Xylenes, total	13,400		ug/kg dw	15.5	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	96.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	98.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	4.68		grams		06/26/2000	dap	SW 5035

MDL : Analyte reported to the Method Detection Limit.

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585737

Job No.: 00.06597

Sample Description: JM-SR-SB02-1-2
Proj. #JM SR

Date Taken: 06/21/2000
Time Taken: 09:35

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	89.4		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<1,340	MDL	ug/kg dw	5.6	06/23/2000	dap	SW 8260B
Toluene	1,230,000		ug/kg dw	5.6	06/23/2000	dap	SW 8260B
Ethyl benzene	<12,300		ug/kg dw	5.6	06/23/2000	dap	SW 8260B
Xylenes, total	<36,900		ug/kg dw	16.8	06/23/2000	dap	SW 8260B
Surr: Toluene-d8	102.0		%	64-140	06/23/2000	dap	SW 8260B
Surr: Bromofluorobenzene	96.0		%	62-127	06/23/2000	dap	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	06/23/2000	dap	SW 8260B
Method 5035 Sample Weight	4.61		grams		06/23/2000	dap	SW 5035

MDL : Analyte reported to the Method Detection Limit.

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585738

Job No.: 00.06597

Sample Description: JM-SR-SB04-2-3
Proj. #JM SR

Date Taken: 06/21/2000
Time Taken: 09:55

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	91.8		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<5.4		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Toluene	12		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Ethyl benzene	<5.4		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Xylenes, total	<16.3		ug/kg dw	16.3	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	134.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	96.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	108.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	5.06		grams		06/26/2000	dap	SW 5035

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585739

Job No.: 00.06597

Sample Description: JM-SR-SB05-2-3
Proj. #JM SR

Date Taken: 06/21/2000
Time Taken: 10:10

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	97.3		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<164	MDL	ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Toluene	175,000		ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Ethyl benzene	<1,540		ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Xylenes, total	7,710		ug/kg dw	15.4	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	98.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	96.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	102.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	3.50		grams		06/26/2000	dap	SW 5035

MDL : Analyte reported to the Method Detection Limit.

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585740

Job No.: 00.06597

Sample Description: JM-SR-SB07-6-7
Proj. #JM SR

Date Taken: 06/21/2000
Time Taken: 11:00

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	97.8		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	7.5		ug/kg dw	5.1	06/23/2000	dap	SW 8260B
Toluene	17		ug/kg dw	5.1	06/23/2000	dap	SW 8260B
Ethyl benzene	<5.1		ug/kg dw	5.1	06/23/2000	dap	SW 8260B
Xylenes, total	<15.3		ug/kg dw	15.3	06/23/2000	dap	SW 8260B
Surr: Toluene-d8	98.0		%	64-140	06/23/2000	dap	SW 8260B
Surr: Bromofluorobenzene	98.0		%	62-127	06/23/2000	dap	SW 8260B
Surr: Dibromofluoromethane	108.0		%	69-147	06/23/2000	dap	SW 8260B
Method 5035 Sample Weight	4.70		grams		06/23/2000	dap	SW 5035

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KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

Chain of Custody Record

TESTAMERICA INC.

☐ Asheville, NC (A) (828) 254-5169 ☐ Bartlett, IL (C) (630) 289-3100 ☐ Cedar Falls, IA (E) (319) 277-2401 ☐ Charlotte, NC (G) (704) 392-1164 ☐ Dayton, OH (I) (937) 294-6856 ☐ Lumberton, NC (K) (910) 738-6190 ☐ Nashville, TN (M) (615) 726-0177 ☐ Pontiac, MI (O) (248) 332-1940 ☐ Rockford. Il (Q) (815) 874-2171
☐ Atlanta, GA (B) (770) 368-0636 ☐ Brighton, CO (D) (303) 659-0497 ☐ Charleston, SC (F) (843) 849-6550 ☐ Columbia, SC (H) (803) 796-8989 ☐ Davenport. IA (J) (319) 323-7944 ☐ Indianapolis, IN (L) (317) 842-4261 ☐ Macon, GA (N) (912) 757-0811 ☐ Orlando, FL (P) (407) 851-2560 ☐ Watertown, WI (R) (920) 261-1660

Client: CADOIS Inc.
Report Address: Suite 150 1121 E. Main St.
St. Charles IL 60174
Attn: John Chitwood
Phone No.: (630) 587-5306
Fax No.: (630) 587-5348

Project No.: JM SR
Invoice Address: Same
Attn: John Chitwood
Sampled By: JPC
P.O. No:
Quote No.
State Samples Collected

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply) Date Needed:

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDESWastewater___
UST___ Drinking Water___
Other SRP None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	BTEX 8260	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
JM-SR-SB01-1-2	6/21	0925	6	S	X	X							PID > 9,999
JM-SR-SB02-1-2	6/21	0935	6	S	X	X							PID > 9,999
JM-SR-SB04-2-3	6/21	0955	6	S	X	X							PID ~ 6,000
JM-SR-SB05-2-3	6/21	1010	6	S	X	X							PID > 9,999
JM-SR-SB07-6-7	6/21	1160	6	S	X	X							PID ~ 400

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: rec'd on ice
Rec Lab Temp:

COMMENTS: Separate Report

18°C actual sample temp

Relinquished By: [signature]	Date 6/22 Time 3:15	Received By: Becky Crooks	Date 6/22/00 Time 3:15
Relinquished By: Becky Crooks	Date 6/22/00 Time 4:20	Received By: P. Merrell	Date 6/22/00 Time 1620
Relinquished By:	Date Time	Received By:	Date Time
	Date Time	Received By:	Date Time

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☑ N/A
Bottles Supplied by TA: ☑ Yes ☐ No

TestAmerica
INCORPORATED

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Job Number: 00.06599

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #JM UST

Sample Number	Sample Description	Date Taken	Date Received
585744	JM-~~UST~~ "039"-SB01-2-3	06/21/2000	06/22/2000
585745	JM-~~UST~~ "039"-SB02-5-6	06/21/2000	06/22/2000
585746	JM-~~UST~~ "039"-SB03-5-6	06/21/2000	06/22/2000
585747	JM-~~UST~~ "039"-SB04-5-6	06/21/2000	06/22/2000
585748	JM-~~UST~~ "039"-SB05-5-6	06/21/2000	06/22/2000
585749	JM-~~UST~~ "039"-SB06-3-4	06/21/2000	06/22/2000
585750	JM-~~UST~~ "039"-SB07-3-4	06/21/2000	06/22/2000
585751	JM-~~UST~~ "039"-SB08-3-4	06/21/2000	06/22/2000

WOB 7/22/00

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Mary Pearson

Mary Pearson
Project Manager

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585744

Job No.: 00.06599

Sample Description: JM-~~UST~~-SB01-2-3
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 07:30

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	96.4		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	17		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Toluene	<5.2		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Ethyl benzene	37		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Xylenes, total	12,400		ug/kg dw	15.6	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	112.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	108.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	98.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	4.60		grams		06/26/2000	dap	SW 5035

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585745

Job No.: 00.06599

Sample Description: JM-~~UST~~ "039"-SB02-5-6
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 07:40

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.6		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	57	J	ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Toluene	502		ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Ethyl benzene	171		ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Xylenes, total	1,280		ug/kg dw	16.0	06/23/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/23/2000	dap	SW 8260B
Surr: Bromofluorobenzene	98.0		%	62-127	06/23/2000	dap	SW 8260B
Surr: Dibromofluoromethane	110.0		%	69-147	06/23/2000	dap	SW 8260B
Method 5035 Sample Weight	5.64		grams		06/23/2000	dap	SW 5035

J : Analyte conc.< reporting limit (RL) or the limit of quantitation (LOQ).

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TestAmerica
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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585746

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039-SB03-5-6
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 07:50

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	95.3		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	199		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Toluene	3,250		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Ethyl benzene	1,150		ug/kg dw	5.2	06/26/2000	dap	SW 8260B
Xylenes, total	12,600		ug/kg dw	15.7	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	106.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	112.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	100.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	5.20		grams		06/26/2000	dap	SW 5035

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585747

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039-SB04-5-6
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 08:00

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	94.4		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	67	J	ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Toluene	403		ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Ethyl benzene	286		ug/kg dw	5.3	06/23/2000	dap	SW 8260B
Xylenes, total	2,330		ug/kg dw	15.9	06/23/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/23/2000	dap	SW 8260B
Surr: Bromofluorobenzene	98.0		%	62-127	06/23/2000	dap	SW 8260B
Surr: Dibromofluoromethane	100.0		%	69-147	06/23/2000	dap	SW 8260B
Method 5035 Sample Weight	4.76		grams		06/23/2000	dap	SW 5035

J : Analyte conc.< reporting limit (RL) or the limit of quantitation (LOQ).

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585748

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039-SB05-5-6
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 08:10

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	93.0		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	34		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Toluene	22		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Ethyl benzene	46		ug/kg dw	5.4	06/26/2000	dap	SW 8260B
Xylenes, total	88		ug/kg dw	16.1	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	100.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	100.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	112.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	5.02		grams		06/26/2000	dap	SW 5035

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585749

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039 -SB06-3-4
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 08:15

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	86.2		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	7.5		ug/kg dw	5.8	06/26/2000	dap	SW 8260B
Toluene	15		ug/kg dw	5.8	06/26/2000	dap	SW 8260B
Ethyl benzene	<5.8		ug/kg dw	5.8	06/26/2000	dap	SW 8260B
Xylenes, total	<17.4		ug/kg dw	17.4	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	94.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	104.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	5.23		grams		06/26/2000	dap	SW 5035

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TestAmerica
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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585750

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039-SB07-3-4
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 08:20

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	97.5		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	5.3		ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Toluene	11		ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Ethyl benzene	<5.1		ug/kg dw	5.1	06/26/2000	dap	SW 8260B
Xylenes, total	<15.4		ug/kg dw	15.4	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	86.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	84.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	118.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	5.12		grams		06/26/2000	dap	SW 5035

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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585751

Job No.: 00.06599

Sample Description: JM-~~UST~~ 039-SB08-3-4
Proj. #JM UST

Date Taken: 06/21/2000
Time Taken: 08:30

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	84.1		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<5.9		ug/kg dw	5.9	06/26/2000	dap	SW 8260B
Toluene	11		ug/kg dw	5.9	06/26/2000	dap	SW 8260B
Ethyl benzene	<5.9		ug/kg dw	5.9	06/26/2000	dap	SW 8260B
Xylenes, total	<17.8		ug/kg dw	17.8	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	96.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	106.0		%	69-147	06/26/2000	dap	SW 8260B
Method 5035 Sample Weight	6.24		grams		06/26/2000	dap	SW 5035

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KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

Chain of Custody Record

TESTAMERICA INC.

☐ Asheville, NC (A) (828) 254-5169	☐ Bartlett, IL (C) (630) 289-3100	☐ Cedar Falls, IA (E) (319) 277-2401	☐ Charlotte, NC (G) (704) 392-1164	☐ Dayton, OH (I) (937) 294-6856	☐ Lumberton, NC (K) (910) 738-6190	☐ Nashville, TN (M) (615) 726-0177	☐ Pontiac, MI (O) (248) 332-1940	☐ Rockford, Il (Q) (815) 874-2171
☐ Atlanta, GA (B) (770) 368-0636	☐ Brighton, CO (D) (303) 659-0497	☐ Charleston, SC (F) (843) 849-6550	☐ Columbia, SC (H) (803) 796-8989	☐ Davenport, IA (J) (319) 323-7944	☐ Indianapolis, IN (L) (317) 842-4261	☐ Macon, GA (N) (912) 757-0811	☐ Orlando, FL (P) (407) 851-2560	☐ Watertown, WI (R) (920) 261-1660

Client: CADDIS, Inc.

Project No.: JM UST

Report Address: Suite 150 1121 E. Main St. Suite 150 St. Charles, IL 60174

Invoice Address:

Attn: John Chitwood

Attn: John Chitwood

Phone No.: (630) 587-5346

Sampled By: JR

Fax No.: (630) 587-5348

P.O. No: ~~JM UST~~

Quote No.

State Samples Collected

TURNAROUND TIME

☒ Standard

☐ Rush (surcharges may apply) Date Needed:

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater___
UST X Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	BTEX 8260	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
JM-~~UST~~ 039-SB01-2-3	6/21	0730	G	S		X					3	1	
JM-~~UST~~ 039-SB02-5-6	6/21	0740	G	S		X					3	1	
JM-~~UST~~ 039-SB03-5-6	6/21	0750	G	S		X					3	1	
JM-~~UST~~ 039-SB04-5-6	6/21	0800	G	S		X					3	1	
JM-~~UST~~ 039-SB05-5-6	6/21	0810	G	S	X	X					3	1	
JM-~~UST~~ 039-SB06-3-4	6/21	0815	G	S	X	X					3	1	
JM-~~UST~~ 039-SB07-3-4	6/21	0820	G	S	X	X					3	1	
JM-~~UST~~ 039-SB08-3-4	6/21	0830	G	S	X	X					3	1	

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: rec'd on ice

Rec Lab Temp: 17°C. actual sample temp

COMMENTS: Report results separately.

Relinquished By: [signature]	Date 6/22	Time 3:15	Received By: Bailey Crockett	Date 6/22/00	Time 3:15
Relinquished By: Bailey Crockett	Date 6/22/00	Time 4:20	Received By: P. Merrill	Date 6/22/00	Time 16:20
Relinquished By:	Date	Time	Received By:	Date	Time

LAB USE ONLY:

Custody Seal: ☐ Yes ☐ No ☑ N/A

Bottles Supplied by TA: ☑ Yes ☐ No

TestAmerica
INCORPORATED

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Job Number: 00.06598

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #JM RR

Sample Number	Sample Description	Date Taken	Date Received
585741	JM-RR-SB01-2-3	06/21/2000	06/22/2000
585742	JM-RR-SB02-0-1	06/21/2000	06/22/2000
585743	JM-RR-SB01-GW	06/21/2000	06/22/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Mary Pearson

Mary Pearson
Project Manager

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585741

Job No.: 00.06598

Sample Description: JM-RR-SB01-2-3
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:00

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	84.0		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	<6.0		ug/kg dw	6.0	06/26/2000	dap	SW 8260B
Toluene	<6.0		ug/kg dw	6.0	06/26/2000	dap	SW 8260B
Ethyl benzene	<6.0		ug/kg dw	6.0	06/26/2000	dap	SW 8260B
Xylenes, total	<17.9		ug/kg dw	17.9	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	108.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	100.0		%	69-147	06/26/2000	dap	SW 8260B
Prep, 8310 PNAs NON-AQUEOUS	extracted				06/23/2000	jjh	
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.048		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Acenaphthylene	<0.048		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Anthracene	0.073		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Benzo(a)anthracene	0.17		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Benzo(b)fluoranthene	0.19		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Benzo(k)fluoranthene	0.086		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Benzo(a)pyrene	0.27		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Benzo(ghi)perylene	0.48		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Chrysene	0.17		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Dibenzo(a,h)anthracene	<0.048		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Fluoranthene	0.30		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Fluorene	<0.048		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Indeno(1,2,3-cd)pyrene	0.30		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Naphthalene	0.049		mg/kg dw	0.048	06/27/2000	mmv	SW 8310

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585741

Job No.: 00.06598

Sample Description: JM-RR-SB01-2-3
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:00

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Phenanthrene	0.23		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Pyrene	0.24		mg/kg dw	0.048	06/27/2000	mmv	SW 8310
Surr: 2-Fluorobiphenyl	74.9		%	21-166	06/27/2000	mmv	SW 8310
Surr: p-Terphenyl	102.3		%	21-162	06/27/2000	mmv	SW 8310
Method 5035 Sample Weight	4.29		grams		06/26/2000	dap	SW 5035

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TestAmerica
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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585742

Job No.: 00.06598

Sample Description: JM-RR-SB02-0-1
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:20

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	79.3		%	0.1	06/29/2000	pjf	SM 2540
UST VOLATILES 8260-NONAQUEOUS							
Benzene	6.3		ug/kg dw	6.3	06/26/2000	dap	SW 8260B
Toluene	<6.3		ug/kg dw	6.3	06/26/2000	dap	SW 8260B
Ethyl benzene	<6.3		ug/kg dw	6.3	06/26/2000	dap	SW 8260B
Xylenes, total	<18.9		ug/kg dw	18.9	06/26/2000	dap	SW 8260B
Surr: Toluene-d8	96.0		%	64-140	06/26/2000	dap	SW 8260B
Surr: Bromofluorobenzene	124.0		%	62-127	06/26/2000	dap	SW 8260B
Surr: Dibromofluoromethane	98.0		%	69-147	06/26/2000	dap	SW 8260B
Prep, 8310 PNAs NON-AQUEOUS	extracted				06/23/2000	jjh	
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Acenaphthylene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Anthracene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Benzo(a)anthracene	0.68		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Benzo(b)fluoranthene	1.0		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Benzo(k)fluoranthene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Benzo(a)pyrene	0.83		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Benzo(ghi)perylene	0.68		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Chrysene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Dibenzo(a,h)anthracene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Fluoranthene	1.2		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Fluorene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Indeno(1,2,3-cd)pyrene	0.61		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Naphthalene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310

ELV : Elevated reporting limits due to matrix interference.

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585742

Job No.: 00.06598

Sample Description: JM-RR-SB02-0-1
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:20

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Phenanthrene	<0.50		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Pyrene	1.1		mg/kg dw	0.050	06/27/2000	mmv	SW 8310
Surr: 2-Fluorobiphenyl	84.1		%	21-166	06/27/2000	mmv	SW 8310
Surr: p-Terphenyl	143.8		%	21-162	06/27/2000	mmv	SW 8310
Method 5035 Sample Weight	3.57		grams		06/26/2000	dap	SW 5035

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TestAmerica
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ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585743

Job No.: 00.06598

Sample Description: JM-RR-SB01-GW
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:05

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<1.0		ug/L	1.0	06/27/2000	mjo	SW 8260B
Ethyl Benzene	<1.0		ug/L	1.0	06/27/2000	mjo	SW 8260B
Toluene	<1.0		ug/L	1.0	06/27/2000	mjo	SW 8260B
Xylenes, Total	<3.0		ug/L	3.0	06/27/2000	mjo	SW 8260B
Surr: Toluene-d8	100.0		%	84-115	06/27/2000	mjo	SW 8260B
Surr: Bromofluorobenzene	96.0		%	79-122	06/27/2000	mjo	SW 8260B
Surr: Dibromofluoromethane	98.0		%	75-124	06/27/2000	mjo	SW 8260B
Prep, 8310 PNAs AQUEOUS	extracted				06/23/2000	djr	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0013	ELV	mg/L	0.0005	06/27/2000	mmv	SW 8310
Acenaphthylene	<0.0013	ELV	mg/L	0.0005	06/27/2000	mmv	SW 8310
Anthracene	<0.0005		mg/L	0.0005	06/27/2000	mmv	SW 8310
Benzo(a)anthracene	<0.00016	ELV	mg/L	0.00013	06/27/2000	mmv	SW 8310
Benzo(b)fluoranthene	<0.00018		mg/L	0.00018	06/27/2000	mmv	SW 8310
Benzo(k)fluoranthene	<0.00017		mg/L	0.00017	06/27/2000	mmv	SW 8310
Benzo(a)pyrene	<0.0002		mg/L	0.0002	06/27/2000	mmv	SW 8310
Benzo(ghi)perylene	<0.0005		mg/L	0.0005	06/27/2000	mmv	SW 8310
Chrysene	<0.0005		mg/L	0.0005	06/28/2000	mmv	SW 8310
Dibenzo(a,h)anthracene	<0.0003		mg/L	0.0003	06/27/2000	mmv	SW 8310
Fluoranthene	<0.0005		mg/L	0.0005	06/27/2000	mmv	SW 8310
Fluorene	<0.0012	ELV	mg/L	0.0005	06/27/2000	mmv	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0003		mg/L	0.0003	06/27/2000	mmv	SW 8310
Naphthalene	0.050		mg/L	0.0005	06/27/2000	mmv	SW 8310
Phenanthrene	<0.0005		mg/L	0.0005	06/27/2000	mmv	SW 8310
Pyrene	<0.00063	ELV	mg/L	0.0005	06/27/2000	mmv	SW 8310

ELV: Elevated reporting limit due to matrix interference.

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. John Chitwood
CADDIS, INC.
1121 E. Main Street.
St. Charles, IL 60174

06/30/2000

Sample No. : 585743

Job No.: 00.06598

Sample Description: JM-RR-SB01-GW
Proj. #JM RR

Date Taken: 06/21/2000
Time Taken: 13:05

Date Received: 06/22/2000
Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Surr: 2-Fluorobiphenyl	63.1		%	45-122	06/27/2000	mmv	SW 8310
Surr: p-Terphenyl	78.7		%	43-118	06/27/2000	mmv	SW 8310

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KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

Chain of Custody Record

TESTAMERICA INC.

☐ Asheville, NC (A) (828) 254-5169	☐ Bartlett, IL (C) (630) 289-3100	☐ Cedar Falls, IA (E) (319) 277-2401	☐ Charlotte, NC (G) (704) 392-1164	☐ Dayton, OH (I) (937) 294-6856	☐ Lumberton, NC (K) (910) 738-6190	☐ Nashville, TN (M) (615) 726-0177	☐ Pontiac, MI (O) (248) 332-1940	☐ Rockford. Il (Q) (815) 874-2171
☐ Atlanta, GA (B) (770) 368-0636	☐ Brighton, CO (D) (303) 659-0497	☐ Charleston, SC (F) (843) 849-6550	☐ Columbia, SC (H) (803) 796-8989	☐ Davenport. IA (J) (319) 323-7944	☐ Indianapolis, IN (L) (317) 842-4261	☐ Macon, GA (N) (912) 757-0811	☐ Orlando, FL (P) (407) 851-2560	☐ Watertown, WI (R) (920) 261-1660

Client: CADDIS Inc.
Report Address: Suite 150 1121 E Main St.
St. Charles IL 60174
Attn: John Chitwood
Phone No.: (630) 587-5306
Fax No.: (630) 587-5345

Project No.: JM RR
Invoice Address: Same
Attn: Same
Sampled By: Same
P.O. No:
Quote No.
State Samples Collected

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply) Date Needed:

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDESWastewater___
UST___ Drinking Water___
Other SRP None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	BTEX	PNA 8310								# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
JM-RR-SB01-2-3	6/21	1300	G	S		X	X												3	1	
JM-RR-SB01-GW	6/21	1305	G	W		X	X								3				1		
JM-RR-SB02-0-1	6/21	1320	G	S		X	X												3	1	

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp

rec'd on ice
Rec Lab Temp

COMMENTS: Separate Report

16°C actual sample temp

Relinquished By: John Chitwood	Date 6/22 Time 3:15	Received By: Becky Crockett	Date 6/22/00 Time 3:15	LAB USE ONLY:		
Relinquished By: Becky Crockett	Date 6/22/00 Time 4:20	Received By: P. Allwell	Date 6/22/00 Time 1620			
Relinquished By:	Date Time	Received By:	Date Time	Custody Seal: ☐ Yes ☐ No ☑ N/A		
Relinquished	Date Time	Received By:	Date Time	Bottles Supplied by TA: Yes ☐ No		

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

October 12, 2000

Mr. Bill Bow
CADDIS, INC.
1121 East Main Street
Suite 150
St. Charles, IL 60174

Project ID: Johns Manville
First Environmental File ID: 16859
Date Received: October 4, 2000

Dear Mr. Bow:

The above referenced sample was analyzed as directed on the enclosed chain of custody record.

Analysis was performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the Analytical Report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

W. Mottashed

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	CADDIS, Inc.		
Project ID:	Johns Manville	Date Received:	10/04/00
Sample Number:	16859	Date Taken:	10/03/00
Sample Description:	JM-MW26	Time Taken:	17:20
Lab File ID:	16859	Date Reported:	10/12/00

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 10/11/00			
Acetone	< 10.0	ug/L	
Benzene	1,220	ug/L	
Bromodichloromethane	< 5.0	ug/L	
Bromoform	< 5.0	ug/L	
Bromomethane	< 10.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 5.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 5.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 5.0	ug/L	
trans-1,3-Dichloropropene	< 5.0	ug/L	
Ethyl benzene	239	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	114	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 10.0	ug/L	
Xylenes (total)	834	ug/L	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Name: CADDIS Inc.
Address: 1121 E Main St Ste 150 St Charles State IL Zip 60174
Phone: 630-587-5306 Fax: 630-587-5348
Contact Name: Bill Bow
Sampled By: Wendy Teskey

Project I.D.: Johns manville
Send Report To: Bill Bow

Matrix Codes: S = Soil W = Water O = Other

8260 VOCs

Date/Time Taken	Sample Description	Matrix	Analyses								Comments	Lab I.D.
10/3/00-1720	JM-MW26	W		X								16859

Sample Acceptance Criteria Met? Yes ☒ No ☐ (exception noted below)
Documentation _____
Condition _____
Chemical Preservation _____
Thermal Preservation _____
Holding Time _____

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy E Teskey Date/Time 10/4/00 -1100 Received By: Irene R. Plogge Date/Time 10-4-00 11:00
Relinquis' By: _____ Date/Time _____ eived By: _____ Date/Time _____

Rev. 3/00

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
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Name: CADDIS INC.
Address: 1121 E Main St. Ste 150 St. Charles State IL Zip 60174
Phone: 630-587-5306 Fax: 630-587-5348
Contact Name: Bill Bow
Sampled By: Wendy Taskey

Project I.D.: Johns manville
Send Report To: Bill Bow

Matrix Codes: S = Soil W = Water O = Other

Date/Time Taken	Sample Description	Matrix	Analyses								Comments	Lab I.D.
			8260 VOCs									
10/3/00-1720	JM-MW26	W		X								16859

Sample Acceptance Criteria Met? Yes ☒ No ☐ (exception noted below)
Documentation _____
Condition _____
Chemical Preservation _____
Thermal Preservation _____
Holding Time _____

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy G Taskey Date/Time 10/4/00 -1100 Received By: Irene R. Plogge Date/Time 10-4-00 11:00
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 3/00

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCILAB BOSTON, INC.
8 SCHOOL STREET
WEYMOUTH, MA 02189
TEL: (781) 337-9334 • FAX: (781) 337-7642

December 5, 2000

Levine-Fricke-Recon Inc.
Attn: Mr. Bow
630 Tollgate Road
Elgin, IL 60123

RE: Levine-Fricke-Recon Inc.
Job Number 500112042
P.O. # 104-90416-00
104-90416-00; Johns Manville; 1871 N. Pershing, Waukegan, IL

Dear Mr. Bow:

Enclosed are the results of Asbestos Analysis - Bulk TEM Protocol of the following Levine-Fricke-Recon Inc. samples, received at SCILAB on Monday, November 27, 2000, for a 5 day turnaround:

H-3, H-4, H-5, H-6, H-7, H-10

The 6 samples, placed in zip lock bags, were shipped to SciLab via Federal Express. Levine-Fricke-Recon Inc. requested TEM Bulk (Semi-quantitative) analysis of these samples.

The samples were prepared and analyzed by a modified EPA/600/R-93/116 method using the Semi-Quantitative TEM quantification procedure (previously refered to as the Chatfield VAT method, SOP-1988-02). After gravimetric matrix reduction the total percent asbestos present is determined by visual area estimation calibrated against standards with known weight percentages of asbestos. This report relates ONLY to the TEM analysis and matrix reduction processes expressed as percent by weight and percent asbestos material. This report must not be used to claim product endorsement or approval by SciLab, NVLAP, ELAP or any other associated SciLab certifying agency. The National Institute of Standards and Technology Accreditation requirements, mandate that this report must not be reproduced except in full with the approval of the laboratory.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Todd Nardozzi
NVLAP Approved Signatory

SciLab Job#: **500112042**

Client Name: Levine-Fricke-Recon Inc.

Table I
Summary of Bulk Asbestos Analysis Results

104-90416-00; Johns Manville; 1871 N. Pershing, Waukegan, IL

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	H-3 0'-4'		1.827	36.40	7.23	56.37	Chrysotile Present	NAD
02	H-4 0'-4'		1.692	32.06	7.07	60.87	Chrysotile Present	NAD
03	H-5 0'-4'		1.775	29.20	6.39	64.40	Chrysotile Present	NAD
04	H-6 0'-4'		1.69	18.86	39.25	40.89	NAD	Chrysotile <1.0
05	H-7 0'-4'		1.929	14.13	37.78	47.08	NAD	Chrysotile <1.0
06	H-10 0'-4'		2.253	11.21	30.63	57.17	NAD	Chrysotile <1.0

Reviewed by: _____

PLM analyst: Corey A. Barnett_____ TEM analyst: Sandhya Gunasekara_____

Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represent results for Qualitative PLM or TEM Analysis only; NA = not analyzed;
Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter.

Quantitative Analysis (Semi/Full): Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; TEM (Semi/Full) by EPA 600/R-93/116; or ELAP 198.1/198.4 for New York samples;
NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <or=1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter.

CHAIN-OF-CUSTODY FORM

LFR PROJECT NO.: 104-90416-00 500112042 PAGE 1 OF 1

Mail Results To:	Mail Invoice To:
Name: William Bow	Name: Tim Woodward
Company: LFR Levine-Fricke (LFR)	Company: LFR Levine-Fricke (LFR)
Street: ~~194 Forbes Road~~ 630 Tollgate Rd. Suite D	Street: 194 Forbes Road
City, State Zip: ~~Braintree, MA 02184~~ Elgin, IL 60123	City, State Zip: Braintree, MA 02184
Phone #: ~~(781) 356-7300~~ ~~630~~ 847-695-8855	Phone #: (781) 356-7300
Fax #: ~~(781) 356-2211~~ 847-695-7799	Fax #: (781) 356-2211

LFR Log In #:

LFR Client: Johns Manville	Sample Number Sequence:
Site Address: 1871 N. Pershing Waukegan, IL	H-3, 0'-4' H-4, 0'-4' H-5, 0'-4' H-6, 0'-4' H-7, 0'-4' H-10, 0'-4'
Contact: William A. Bow	
Phone #: 847-695-8855	
Fax #: 847-695-7799	

Samples Collected By: Wendy Teskey	Analysis Turnaround Time: Standard
Date(s) Collected: 11/20/00	Date Faxed Results Required:
Sample Type: Soil	Date Typed Results Required:

	Printed Name	Signature	Affiliation	Date	Samples	Task
Remitted	Wendy Teskey	Wendy E. Teskey	LFR Levine Fricke	11/21/00	6 soil samples	
Received	Suzy Sullivan	Sullivan	Silab	11-27-00	9:15	
Remitted						
Received						
Remitted						
Received						
Remitted						
Received						

Chain-of-Custody Seal #:

Comments: Analyze using PLM. If all 6 samples are negative, then run samples H-3, H-7, and H-10 for modified Chatfield TEM.

neral\Template\Chain.doc

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

April 11, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: SVE System

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on April 9, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	SVE System	Sampled:	4/9/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	4/9/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	4/11/01 11:49

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SVEW040901 "West"	B104135-01	Soil	4/9/01
SVEE040901 "East"	B104135-02	Soil	4/9/01
SVEC040901 "Center"	B104135-03	Soil	4/9/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	SVE System	Sampled:	4/9/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	4/9/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	4/11/01 11:49

BTEX by EPA Method 5035/8021B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
SVEW040901			**B104135-01**				**Soil**	**G12**
Benzene "West"	1040179	4/9/01	4/10/01		5000	**6660**	ug/kg	
Toluene	"	"	"		5000	**2770000**	"	
Ethylbenzene	"	"	"		5000	**22400**	"	
Total Xylenes	"	"	"		5000	**66600**	"	
Surrogate: 4-BFB	"	"	"	*74.3-166*		*NR*	%	*O5*
SVEE040901			**B104135-02**				**Soil**	
Benzene "East"	1040179	4/9/01	4/9/01		25.0	ND	ug/kg	
Toluene	"	"	"		100	**20100**	"	G12
Ethylbenzene	"	"	"		25.0	**338**	"	
tal Xylenes	"	"	"		25.0	**2320**	"	
rogate: 4-BFB	"	"	"	*74.3-166*		*152*	%	
SVEC040901			**B104135-03**				**Soil**	
Benzene "Center"	1040179	4/9/01	4/9/01		25.0	ND	ug/kg	
Toluene	"	"	"		100	**27400**	"	G12
Ethylbenzene	"	"	"		25.0	**570**	"	
Total Xylenes	"	"	"		25.0	**3140**	"	
Surrogate: 4-BFB	"	"	"	*74.3-166*		*94.5*	%	

at Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	SVE System	Sampled:	4/9/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	4/9/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	4/11/01 11:49

BTEX by EPA Method 5035/8021B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1040179	**Date Prepared: 4/9/01**				**Extraction Method: EPA 5035B [P/T]**					
Blank	**1040179-BLK1**									
Benzene	4/11/01			ND	ug/kg	25.0				
Toluene	"			ND	"	25.0				
Ethylbenzene	"			ND	"	25.0				
Total Xylenes	"			ND	"	25.0				
Surrogate: 4-BFB	"	*1000*		*1020*	"	*74.3-166*	*102*			
LCS	**1040179-BS1**									
Benzene	4/9/01	1000		948	ug/kg	28.8-155	94.8			
Toluene	"	1000		1410	"	45.7-141	141			
ylbenzene	"	1000		1020	"	52.3-143	102			
al Xylenes	"	3000		3120	"	51.3-142	104			
Surrogate: 4-BFB	"	*1000*		*898*	"	*74.3-166*	*89.8*			
LCS Dup	**1040179-BSD1**									
Benzene	4/9/01	1000		1030	ug/kg	28.8-155	103	66.2	8.29	
Toluene	"	1000		1410	"	45.7-141	141	48.6	0	
Ethylbenzene	"	1000		1100	"	52.3-143	110	45.3	7.55	
Total Xylenes	"	3000		3400	"	51.3-142	113	45.5	8.29	
Surrogate: 4-BFB	"	*1000*		*1160*	"	*74.3-166*	*116*			

.eat Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	SVE System	Sampled:	4/9/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	4/9/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	4/11/01 11:49

Notes and Definitions

#	Note
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
›v.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
1560 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772
140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

CHAIN OF CUSTODY REPORT

BXC

Client: JOHNS MANVILLE
Address: 1871 N. PERSHING RD
WAUKEGAN IL 60087
Report to: DAVE PETERSON
Phone #: ( )
Fax #: ( )

Bill To: DAVE PETERSON
Address: SAME
State & Program: 5035/8021
Phone #: (847) 360-4434
Fax #: (847) 360-4558

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY 24 HRS.
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED: 04/10/01
TEMPERATURE UPON RECEIPT: 3.9°C ~~04/11/01~~ BXC
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project:
Sampler: BXC
PO/Quote #:

#	FIELD ID LOCATION	PID	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	BTEX	(5035/8021)	CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	SVEW040901 SVE SYSTEM WEST	300ppm	4/9/01	1035	SOIL	✓							2	✓				B104135-01
2	SVEE040901 SVE SYSTEM EAST	50ppm	"	11:10	"	✓							2	✓				-02
3	SVEC040901 SVE SYSTEM CENTER	100ppm	"	11:33	"	✓							2	✓				-03
4	NA																	
5																		
6																		
7																		
8																		
9																		
10																		

BXC 04/09/01

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
04/09/01 1239	4/9		
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

June 5, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: 7992.00 (LFR)

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on May 24, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

D BLDG - TRANSFORMER SPILL. SEWER SAMPLING
- EAST MANHOLE (WATER)
- WEST MANHOLE (OIL)
- CENTER MANHOLE (NEXT TO TRANSFORMER) (OIL)

D BLDG, MIDDLE SATURATERS
- ~~LIQUID~~ SAND THAT ~~SAT~~ WAS ON TOP.
(AREA WAS STAINED)

Waste Characterization of Still Room & Bldg D Saturator soil w/in pits

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
D052301 BLDG #D Coal & Oil Pit	B105378-01	Soil	5/23/01
D-T-E	B105378-02	Water	5/23/01
D-T-C	B105378-03	OIL	5/23/01
D-T-W	B105378-04	OIL	5/23/01

t Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

Polychlorinated Biphenyls by EPA Method 8082
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
D052301 BLDG #D Coal & Oil Pit			**B105378-01**				**Soil**	
PCB-1016	1050652	5/31/01	6/1/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*26.7*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*14.7*	"	*O4*
D-T-E			**B105378-02**				**Water**	
PCB-1016	1050564	5/25/01	5/25/01		0.500	ND	ug/l	
1221	"	"	"		0.500	ND	"	
PCB-1232	"	"	"		0.500	ND	"	
PCB-1242	"	"	"		0.500	ND	"	
PCB-1248	"	"	"		0.500	ND	"	
PCB-1254	"	"	"		0.500	ND	"	
PCB-1260	"	"	"		0.500	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*10.0-110*		*11.8*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*10.0-110*		*19.4*	"	
D-T-C			**B105378-03**				**OIL**	
PCB-1016	1050565	5/25/01	5/25/01		3.50	ND	mg/kg	
PCB-1221	"	"	"		3.50	ND	"	
PCB-1232	"	"	"		3.50	ND	"	
PCB-1242	"	"	"		3.50	ND	"	
PCB-1248	"	"	"		3.50	ND	"	
PCB-1254	"	"	"		3.50	ND	"	
PCB-1260	"	"	"		3.50	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*10.0-214*		*58.1*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*10.0-248*		*62.3*	"	
D-T-W			**B105378-04**				**OIL**	
PCB-1016	1050565	5/25/01	5/25/01		3.50	ND	mg/kg	
PCB-1221	"	"	"		3.50	ND	"	
PCB-1232	"	"	"		3.50	ND	"	
PCB-1242	"	"	"		3.50	ND	"	
PCB-1248	"	"	"		3.50	ND	"	

t Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

Polychlorinated Biphenyls by EPA Method 8082
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
D-T-W (continued)			**B105378-04**				**OIL**	
PCB-1254	1050565	5/25/01	5/25/01		3.50	ND	mg/kg	
PCB-1260	"	"	"		3.50	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*10.0-214*		*63.8*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*10.0-248*		*63.6*	"	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Volatile Organic Compounds by EPA Method 1311/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
D052301 BLDG #D Coal & Oil Pit			**B105378-01**				**Soil**	
Benzene	1050634	5/30/01	5/30/01		0.400	ND	mg/l	
Carbon tetrachloride	"	"	"		0.400	ND	"	
Chlorobenzene	"	"	"		0.400	ND	"	
Chloroform	"	"	"		0.400	ND	"	
1,2-Dichloroethane	"	"	"		0.400	ND	"	
1,1-Dichloroethylene	"	"	"		0.400	ND	"	
Methyl ethyl ketone	"	"	"		100	ND	"	
Tetrachloroethene	"	"	"		0.400	ND	"	
Trichloroethylene	"	"	"		0.400	ND	"	
Vinyl chloride	"	"	"		0.160	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*89.3-113*		*93.4*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.6-131*		*101*	"	
Surrogate: Toluene-d8	"	"	"	*93.9-116*		*103*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*80.2-105*		*98.6*	"	

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1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Semivolatiles by EPA Method 1311/8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
D052301 BLDG #D Coal & Oil Pit			**B105378-01**				**Soil**	**G19,G4**
o-Cresol	1060006	6/1/01	6/4/01		20.0	ND	mg/l	
m,p-Cresols	"	"	"		20.0	ND	"	
Cresol	"	"	"		20.0	ND	"	
1,4-Dichlorobenzene	"	"	"		0.750	ND	"	
2,4-Dinitrotoluene	"	"	"		0.0200	ND	"	
Hexachlorobenzene	"	"	"		0.0200	ND	"	
Hexachlorobutadiene	"	"	"		0.0500	ND	"	
Hexachloroethane	"	"	"		0.300	ND	"	
Nitrobenzene	"	"	"		0.200	ND	"	
Pentachlorophenol	"	"	"		10.0	ND	"	
Pyridine	"	"	"		0.500	ND	"	
2,4,5-Trichlorophenol	"	"	"		40.0	ND	"	
2,4,6-Trichlorophenol	"	"	"		0.200	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*21.4-94.2*		*38.9*	*%*	
Surrogate: Phenol-d6	"	"	"	*10.0-195*		*24.2*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*21.0-95.1*		*51.4*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*21.4-94.2*		*62.4*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*10.0-217*		*36.0*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*20.9-104*		*71.0*	"	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

General Chemistry
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
D052301 BLDG #D Coal & Oil Pit			**B105378-01**				**Soil**	
Free Liquid	1050643	5/31/01	6/1/01	9095A		Pass	N/A	
Flashpoint	1050644	"	5/31/01	ASTM D92-85		>220	°F	
Phenol	1050616	5/30/01	5/30/01	EPA 420.2	0.630	**0.828**	mg/kg	
Reactive Cyanide	1060017	6/1/01	6/1/01	EPA 7.3.3	0.130	ND	"	
Reactive Sulfide	1060022	"	"	EPA 7.3.4	6.50	ND	"	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

Dry Weight Determination
Great Lakes Analytical

Sample Name	Lab ID	Matrix	Result	Units
D052301 BLDG #D Coal & Oil Pit	B105378-01	Soil	92.7	%

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1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Metals by EPA 1311/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1060001	**Date Prepared: 6/1/01**					**Extraction Method: EPA 7470A**				
Blank	**1060001-BLK1**									
Mercury	6/1/01			**ND**	mg/l	**0.000200**				
LCS	**1060001-BS1**									
Mercury	6/1/01	0.00100		0.000989	mg/l	73.9-123	98.9			
Matrix Spike	**1060001-MS1**		**B105373-01**							
Mercury	6/1/01	0.00100	ND	0.000962	mg/l	58.0-152	**96.2**			
Matrix Spike Dup	**1060001-MSD1**		**B105373-01**							
Mercury	6/1/01	0.00100	ND	0.000964	mg/l	58.0-152	**96.4**	26.2	**0.208**	
h: 1060002	**Date Prepared: 6/1/01**					**Extraction Method: EPA 3015**				
Blank	**1060002-BLK1**									
Arsenic	6/1/01			**ND**	mg/l	**0.100**				
Barium	"			**ND**	"	**1.00**				
Cadmium	"			**ND**	"	**0.00500**				
Chromium	"			**ND**	"	**0.100**				
Selenium	"			**ND**	"	**0.100**				
Silver	"			**ND**	"	**0.0500**				
Lead	"			**ND**	"	**0.00500**				
LCS	**1060002-BS1**									
Arsenic	6/1/01	2.22		2.23	mg/l	72.8-139	100			
Barium	"	2.22		2.22	"	81.6-126	100			
Cadmium	"	1.11		1.12	"	76.7-131	101			
Chromium	"	2.22		2.21	"	79.3-130	99.5			
Selenium	"	1.11		1.10	"	69.9-135	99.1			
Silver	"	1.11		1.09	"	83.2-137	98.2			
Lead	"	0.0267		0.0317	"	59.9-152	119			
Matrix Spike	**1060002-MS1**		**B105373-01**							
Arsenic	6/1/01	2.22	ND	2.06	mg/l	82.8-135	**92.8**			
Barium	"	2.22	ND	2.32	"	67.1-154	**105**			
Cadmium	"	1.11	ND	1.09	"	66.3-153	**98.2**			
Chromium	"	2.22	ND	2.12	"	67.1-149	**95.5**			
Selenium	"	1.11	ND	1.05	"	66.1-150	**94.6**			
Silver	"	1.11	ND	1.12	"	19.6-176	**101**			

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1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Metals by EPA 1311/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1060002-MS1**		**B105373-01**							
Lead	6/1/01	0.0267	ND	0.0326	mg/l	35.2-176	**122**			
Matrix Spike Dup	**1060002-MSD1**		**B105373-01**							
Arsenic	6/1/01	2.22	ND	2.08	mg/l	82.8-135	**93.7**	19.3	**0.965**	
Barium	"	2.22	ND	2.35	"	67.1-154	**106**	16.0	**0.948**	
Cadmium	"	1.11	ND	1.08	"	66.3-153	**97.3**	23.8	**0.921**	
Chromium	"	2.22	ND	2.14	"	67.1-149	**96.4**	13.8	**0.938**	
Selenium	"	1.11	ND	1.06	"	66.1-150	**95.5**	21.8	**0.947**	
Silver	"	1.11	ND	1.08	"	19.6-176	**97.3**	35.8	**3.73**	
Lead	"	0.0267	ND	0.0324	"	35.2-176	**121**	35.3	**0.823**	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

Polychlorinated Biphenyls by EPA Method 8082/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1050564	**Date Prepared: 5/25/01**				**Extraction Method: EPA 3510C**					
Blank	**1050564-BLK1**									
PCB-1016	5/25/01			**ND**	ug/l	**0.500**				
PCB-1221	"			**ND**	"	**0.500**				
PCB-1232	"			**ND**	"	**0.500**				
PCB-1242	"			**ND**	"	**0.500**				
PCB-1248	"			**ND**	"	**0.500**				
PCB-1254	"			**ND**	"	**0.500**				
PCB-1260	"			**ND**	"	**0.500**				
Surrogate: Tetrachloro-meta-xylene	"	*1.00*		*0.724*	"	*10.0-110*	*72.4*			
Surrogate: Decachlorobiphenyl	"	*1.00*		*0.903*	"	*10.0-110*	*90.3*			
LCS	**1050564-BS1**									
PCB-1016	5/25/01	5.00		3.20	ug/l	15.3-116	64.0			
PCB-1260	"	5.00		3.70	"	10.0-130	74.0			
Surrogate: Tetrachloro-meta-xylene	"	*1.00*		*0.609*	"	*10.0-110*	*60.9*			
Surrogate: Decachlorobiphenyl	"	*1.00*		*0.717*	"	*10.0-110*	*71.7*			
LCS Dup	**1050564-BSD1**									
PCB-1016	5/25/01	5.00		3.69	ug/l	15.3-116	73.8	74.2	14.2	
PCB-1260	"	5.00		3.62	"	10.0-130	72.4	85.4	2.19	
Surrogate: Tetrachloro-meta-xylene	"	*1.00*		*0.698*	"	*10.0-110*	*69.8*			
Surrogate: Decachlorobiphenyl	"	*1.00*		*0.652*	"	*10.0-110*	*65.2*			
Batch: 1050652	**Date Prepared: 5/31/01**				**Extraction Method: EPA 3550B**					
Blank	**1050652-BLK1**									
PCB-1016	6/2/01			**ND**	ug/kg	**25.0**				
PCB-1221	"			**ND**	"	**25.0**				
PCB-1232	"			**ND**	"	**25.0**				
PCB-1242	"			**ND**	"	**25.0**				
PCB-1248	"			**ND**	"	**25.0**				
PCB-1254	"			**ND**	"	**25.0**				
PCB-1260	"			**ND**	"	**25.0**				
Surrogate: Tetrachloro-meta-xylene	"	*34.0*		*15.8*	"	*22.2-110*	*46.5*			
Surrogate: Decachlorobiphenyl	"	*34.0*		*12.6*	"	*16.2-107*	*37.1*			
LCS	**1050652-BS1**									
PCB-1016	6/2/01	170		91.8	ug/kg	10.0-135	54.0			
PCB-1260	"	170		95.5	"	10.0-118	56.2			

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Polychlorinated Biphenyls by EPA Method 8082/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1050652-BS1**									
Surrogate: Tetrachloro-meta-xylene	*6/2/01*	*34.1*		*21.5*	*ug/kg*	*22.2-110*	*63.0*			
Surrogate: Decachlorobiphenyl	*"*	*34.1*		*17.5*	*"*	*16.2-107*	*51.3*			
Matrix Spike	**1050652-MS1**		**B105382-01**							
PCB-1016	6/2/01	172	ND	78.3	ug/kg	14.3-134	**45.5**			
PCB-1260	"	172	ND	80.2	"	10.0-173	**46.6**			
Surrogate: Tetrachloro-meta-xylene	*"*	*34.4*		*18.6*	*"*	*22.2-110*	*54.1*			
Surrogate: Decachlorobiphenyl	*"*	*34.4*		*16.4*	*"*	*16.2-107*	*47.7*			
Matrix Spike Dup	**1050652-MSD1**		**B105382-01**							
PCB-1016	6/2/01	164	ND	80.1	ug/kg	14.3-134	**48.8**	74.2	**7.00**	
PCB-1260	"	164	ND	84.1	"	10.0-173	**51.3**	51.5	**9.60**	
Surrogate: Tetrachloro-meta-xylene	*"*	*32.8*		*18.8*	*"*	*22.2-110*	*57.3*			
Surrogate: Decachlorobiphenyl	*"*	*32.8*		*16.4*	*"*	*16.2-107*	*50.0*			

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1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Volatile Organic Compounds by EPA Method 1311/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1050634	**Date Prepared: 5/30/01**				**Extraction Method: 8260 TCLP**					
Blank	**1050634-BLK1**									
Benzene	5/30/01			**ND**	mg/l	**0.400**				
Carbon tetrachloride	"			**ND**	"	**0.400**				
Chlorobenzene	"			**ND**	"	**0.400**				
Chloroform	"			**ND**	"	**0.400**				
1,2-Dichloroethane	"			**ND**	"	**0.400**				
1,1-Dichloroethylene	"			**ND**	"	**0.400**				
Methyl ethyl ketone	"			**ND**	"	**100**				
Tetrachloroethene	"			**ND**	"	**0.400**				
Trichloroethylene	"			**ND**	"	**0.400**				
Vinyl chloride	"			**ND**	"	**0.160**				
Surrogate: Dibromofluoromethane	"	*0.0500*		*0.0469*	"	*89.3-113*	*93.8*			
Surrogate: 1,2-Dichloroethane-d4	"	*0.0500*		*0.0499*	"	*50.6-131*	*99.8*			
Surrogate: Toluene-d8	"	*0.0500*		*0.0518*	"	*93.9-116*	*104*			
Surrogate: 4-Bromofluorobenzene	"	*0.0500*		*0.0488*	"	*80.2-105*	*97.6*			
LCS	**1050634-BS1**									
Benzene	5/30/01	0.0500		0.0462	mg/l	57.0-144	92.4			
Carbon tetrachloride	"	0.0500		0.0431	"	10.0-178	86.2			
Chlorobenzene	"	0.0500		0.0487	"	59.6-138	97.4			
Chloroform	"	0.0500		0.0454	"	41.7-167	90.8			
1,2-Dichloroethane	"	0.0500		0.0465	"	12.0-163	93.0			
1,1-Dichloroethylene	"	0.0500		0.0440	"	11.4-186	88.0			
Methyl ethyl ketone	"	0.0500		0.0463	"	10.0-792	92.6			
Tetrachloroethene	"	0.0500		0.0489	"	45.4-142	97.8			
Trichloroethylene	"	0.0500		0.0418	"	30.8-147	83.6			
Vinyl chloride	"	0.0500		0.0465	"	40.8-163	93.0			
Surrogate: Dibromofluoromethane	"	*0.0500*		*0.0486*	"	*89.3-113*	*97.2*			
Surrogate: 1,2-Dichloroethane-d4	"	*0.0500*		*0.0499*	"	*50.6-131*	*99.8*			
Surrogate: Toluene-d8	"	*0.0500*		*0.0504*	"	*93.9-116*	*101*			
Surrogate: 4-Bromofluorobenzene	"	*0.0500*		*0.0515*	"	*80.2-105*	*103*			
Matrix Spike	**1050634-MS1**		**B105413-01**							
Benzene	5/30/01	0.0500	ND	0.0494	mg/l	51.9-146	**98.8**			
Carbon tetrachloride	"	0.0500	ND	0.0477	"	10.0-182	**95.4**			
Chlorobenzene	"	0.0500	ND	0.0520	"	41.1-143	**104**			
Chloroform	"	0.0500	ND	0.0478	"	37.0-175	**95.6**			
1,2-Dichloroethane	"	0.0500	ND	0.0495	"	41.5-147	**99.0**			

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1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Volatile Organic Compounds by EPA Method 1311/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1050634-MS1**		**B105413-01**							
1,1-Dichloroethylene	5/30/01	0.0500	ND	0.0484	mg/l	10.0-195	**96.8**			
Methyl ethyl ketone	"	0.0500	ND	0.0532	"	10.0-970	**106**			
Tetrachloroethene	"	0.0500	ND	0.0532	"	11.5-151	**106**			
Trichloroethylene	"	0.0500	ND	0.0449	"	20.6-140	**89.8**			
Vinyl chloride	"	0.0500	ND	0.0490	"	22.2-175	**98.0**			
Surrogate: Dibromofluoromethane	"	*0.0500*		*0.0481*	"	*89.3-113*	*96.2*			
Surrogate: 1,2-Dichloroethane-d4	"	*0.0500*		*0.0502*	"	*50.6-131*	*100*			
Surrogate: Toluene-d8	"	*0.0500*		*0.0514*	"	*93.9-116*	*103*			
Surrogate: 4-Bromofluorobenzene	"	*0.0500*		*0.0515*	"	*80.2-105*	*103*			
Matrix Spike Dup	**1050634-MSD1**		**B105413-01**							
Benzene	5/30/01	0.0500	ND	0.0511	mg/l	51.9-146	**102**	29.1	**3.19**	
›on tetrachloride	"	0.0500	ND	0.0496	"	10.0-182	**99.2**	66.0	**3.91**	
.orobenzene	"	0.0500	ND	0.0537	"	41.1-143	**107**	43.5	**2.84**	
Chloroform	"	0.0500	ND	0.0467	"	37.0-175	**93.4**	34.4	**2.33**	
1,2-Dichloroethane	"	0.0500	ND	0.0486	"	41.5-147	**97.2**	29.2	**1.83**	
1,1-Dichloroethylene	"	0.0500	ND	0.0490	"	10.0-195	**98.0**	78.0	**1.23**	
Methyl ethyl ketone	"	0.0500	ND	0.0530	"	10.0-970	**106**	34.1	**0**	
Tetrachloroethene	"	0.0500	ND	0.0563	"	11.5-151	**113**	135	**6.39**	
Trichloroethylene	"	0.0500	ND	0.0471	"	20.6-140	**94.2**	48.2	**4.78**	
Vinyl chloride	"	0.0500	ND	0.0472	"	22.2-175	**94.4**	42.4	**3.74**	
Surrogate: Dibromofluoromethane	"	*0.0500*		*0.0464*	"	*89.3-113*	*92.8*			
Surrogate: 1,2-Dichloroethane-d4	"	*0.0500*		*0.0485*	"	*50.6-131*	*97.0*			
Surrogate: Toluene-d8	"	*0.0500*		*0.0510*	"	*93.9-116*	*102*			
Surrogate: 4-Bromofluorobenzene	"	*0.0500*		*0.0502*	"	*80.2-105*	*100*			

GREAT LAKES ANALYTICAL

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Semivolatiles by EPA Method 1311/8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1060006	**Date Prepared: 6/1/01**				**Extraction Method: 3510C TCLP**					
Blank	**1060006-BLK1**									
o-Cresol	6/5/01			**ND**	mg/l	**20.0**				
m,p-Cresols	"			**ND**	"	**20.0**				
Cresol	"			**ND**	"	**20.0**				
1,4-Dichlorobenzene	"			**ND**	"	**0.750**				
2,4-Dinitrotoluene	"			**ND**	"	**0.0200**				
Hexachlorobenzene	"			**ND**	"	**0.0200**				
Hexachlorobutadiene	"			**ND**	"	**0.0500**				
Hexachloroethane	"			**ND**	"	**0.300**				
Nitrobenzene	"			**ND**	"	**0.200**				
Pentachlorophenol	"			**ND**	"	**10.0**				
Pyridine	"			**ND**	"	**0.500**				
2, [illegible]ichlorophenol	"			**ND**	"	**40.0**				
2,4,6-Trichlorophenol	"			**ND**	"	**0.200**				
Surrogate: 2-Fluorophenol	"	*0.000998*		*0.000398*	"	*21.4-94.2*	*39.9*			
Surrogate: Phenol-d6	"	*0.000998*		*0.000240*	"	*10.0-195*	*24.0*			
Surrogate: Nitrobenzene-d5	"	*0.000500*		*0.000291*	"	*21.0-95.1*	*58.2*			
Surrogate: 2-Fluorobiphenyl	"	*0.000500*		*0.000349*	"	*21.4-94.2*	*69.8*			
Surrogate: 2,4,6-Tribromophenol	"	*0.000998*		*0.0000170*	"	*10.0-217*	*1.70*			
Surrogate: p-Terphenyl-d14	"	*0.000500*		*0.000358*	"	*20.9-104*	*71.6*			
LCS	**1060006-BS1**									
o-Cresol	6/5/01	0.00100		0.000512	mg/l	41.0-219	51.2			
m,p-Cresols	"	0.00200		0.000253	"	50.0-225	12.6			
Cresol	"	0.00300		0.000512	"	70.0-130	17.1			
1,4-Dichlorobenzene	"	0.00100		0.000693	"	11.0-190	69.3			
2,4-Dinitrotoluene	"	0.00100		0.000436	"	42.0-218	43.6			
Hexachlorobenzene	"	0.00100		0.000668	"	10.0-118	66.8			
Hexachlorobutadiene	"	0.00100		0.000660	"	50.0-130	66.0			
Hexachloroethane	"	0.00100		0.000283	"	10.0-199	28.3			
Nitrobenzene	"	0.00100		0.000703	"	70.0-130	70.3			
Pentachlorophenol	"	0.00100		ND	"	10.0-229	NR			
Pyridine	"	0.00100		ND	"	10.0-162	NR			
2,4,5-Trichlorophenol	"	0.00100		0.000481	"	10.0-204	48.1			
2,4,6-Trichlorophenol	"	0.00100		0.000498	"	10.0-219	49.8			
Surrogate: 2-Fluorophenol	"	*0.000998*		*0.000419*	"	*21.4-94.2*	*42.0*			
Surrogate: Phenol-d6	"	*0.000998*		*0.000280*	"	*10.0-195*	*28.1*			
Surrogate: Nitrobenzene-d5	"	*0.000500*		*0.000314*	"	*21.0-95.1*	*62.8*			

GREAT LAKES ANALYTICAL

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Semivolatiles by EPA Method 1311/8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1060006-BS1**									
Surrogate: 2-Fluorobiphenyl	*6/5/01*	*0.000500*		*0.000334*	*mg/l*	*21.4-94.2*	*66.8*			
Surrogate: 2,4,6-Tribromophenol	*"*	*0.000998*		*0.000380*	*"*	*10.0-217*	*38.1*			
Surrogate: p-Terphenyl-d14	*"*	*0.000500*		*0.000350*	*"*	*20.9-104*	*70.0*			
LCS Dup	**1060006-BSD1**									
o-Cresol	6/5/01	0.00100		0.000454	mg/l	41.0-219	45.4	20.0	12.0	
m,p-Cresols	"	0.00200		0.000230	"	50.0-225	11.5	20.0	9.13	
Cresol	"	0.00300		0.000454	"	70.0-130	15.1	20.0	12.4	
1,4-Dichlorobenzene	"	0.00100		0.000684	"	11.0-190	68.4	20.0	1.31	
2,4-Dinitrotoluene	"	0.00100		0.000388	"	42.0-218	38.8	20.0	11.7	
Hexachlorobenzene	"	0.00100		0.000677	"	10.0-118	67.7	20.0	1.34	
H[illegible]achlorobutadiene	"	0.00100		0.000695	"	50.0-130	69.5	20.0	5.17	
[illegible]chloroethane	"	0.00100		0.000327	"	10.0-199	32.7	20.0	14.4	
Nitrobenzene	"	0.00100		0.000670	"	50.0-130	67.0	20.0	4.81	
Pentachlorophenol	"	0.00100		ND	"	10.0-229	NR	20.0		
Pyridine	"	0.00100		0.0000950	"	10.0-162	9.50	20.0	200	
2,4,5-Trichlorophenol	"	0.00100		0.000369	"	10.0-204	36.9	20.0	26.4	
2,4,6-Trichlorophenol	"	0.00100		0.000407	"	10.0-219	40.7	20.0	20.1	
Surrogate: 2-Fluorophenol	*"*	*0.000998*		*0.000385*	*"*	*21.4-94.2*	*38.6*			
Surrogate: Phenol-d6	*"*	*0.000998*		*0.000256*	*"*	*10.0-195*	*25.7*			
Surrogate: Nitrobenzene-d5	*"*	*0.000500*		*0.000305*	*"*	*21.0-95.1*	*61.0*			
Surrogate: 2-Fluorobiphenyl	*"*	*0.000500*		*0.000324*	*"*	*21.4-94.2*	*64.8*			
Surrogate: 2,4,6-Tribromophenol	*"*	*0.000998*		*0.000197*	*"*	*10.0-217*	*19.7*			
Surrogate: p-Terphenyl-d14	*"*	*0.000500*		*0.000381*	*"*	*20.9-104*	*76.2*			

Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

General Chemistry/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1050616	**Date Prepared: 5/30/01**					**Extraction Method: General Prep WC**				
Blank	**1050616-BLK1**									
Phenol	5/30/01			**ND**	mg/kg	**0.630**				
LCS	**1050616-BS1**									
Phenol	5/30/01	10.0		10.7	mg/kg	78.0-121	107			
Matrix Spike	**1050616-MS1**		**B105320-01**							
Phenol	5/30/01	9.85	1.00	11.5	mg/kg	56.0-125	**107**			
Matrix Spike Dup	**1050616-MSD1**		**B105320-01**							
Phenol	5/30/01	9.79	1.00	10.2	mg/kg	56.0-125	**94.0**	17.0	**12.9**	
ch: 1060017	**Date Prepared: 6/1/01**					**Extraction Method: General Prep WC**				
Blank	**1060017-BLK1**									
Reactive Cyanide	6/1/01			**ND**	mg/kg	**0.130**				
LCS	**1060017-BS1**									
Reactive Cyanide	6/1/01	11.9		9.10	mg/kg	20.0-100	76.5			
Matrix Spike	**1060017-MS1**		**B105378-01**							
Reactive Cyanide	6/1/01	0.960	ND	0.736	mg/kg	20.0-100	**76.7**			
Matrix Spike Dup	**1060017-MSD1**		**B105378-01**							
Reactive Cyanide	6/1/01	11.9	ND	9.05	mg/kg	20.0-100	**76.1**	18.0	**0.785**	
Batch: 1060022	**Date Prepared: 6/1/01**					**Extraction Method: General Prep WC**				
Blank	**1060022-BLK1**									
Reactive Sulfide	6/1/01			**ND**	mg/kg	**6.50**				
LCS	**1060022-BS1**									
Reactive Sulfide	6/1/01	13.7		ND	mg/kg	27.0-131	NR			
Matrix Spike	**1060022-MS1**		**B105378-01**							
Reactive Sulfide	6/1/01	1690	ND	436	mg/kg	10.0-143	**25.8**			
Matrix Spike Dup	**1060022-MSD1**		**B105378-01**							
Reactive Sulfide	6/1/01	1690	ND	436	mg/kg	10.0-143	**25.8**	20.0	**0**	

:at Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

Notes and Definitions

#	Note
>220	No flash detected up to 220 °F
G19	The relative percent difference (RPD) of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G4	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
Pass	No sample flowed through paint filter.
DET	Analyte DETECTED
	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

.t Lakes Analytical

Andy Johnson, Project Manager

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Johns Manville	Project:	7992.00 (LFR)	Sampled:	5/23/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	5/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/5/01 14:57

TCLP Metals by EPA 1311/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
D052301 BLDG #D Coal & Oil Pit			**B105378-01**				**Soil**	
Arsenic	1060002	6/1/01	6/1/01	EPA 6010B	0.100	ND	mg/l	
Barium	"	"	"	EPA 6010B	1.00	ND	"	
Cadmium	"	"	"	EPA 6010B	0.00500	ND	"	
Chromium	"	"	"	EPA 6010B	0.100	ND	"	
Selenium	"	"	"	EPA 6010B	0.100	ND	"	
Silver	"	"	"	EPA 6010B	0.0500	ND	"	
Lead	"	"	"	EPA 7421	0.00500	**0.0258**	"	
Mercury	1060001	"	"	EPA 7470A	0.000200	ND	"	

t Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

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June 22, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: LFR

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on June 14, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

J BLDG TRANSFORMER SPILL
EXCAVATION PERIMETER SOIL
SAMPLING

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
W061301 West End of Transpit	B106230-01	Soil	6/13/01
S061301 South End of Transpit	B106230-02	Soil	6/13/01
E061301 East End of Transpit	B106230-03	Soil	6/13/01

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polychlorinated Biphenyls by EPA Method 8082
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W061301 West End of Transpit			**B106230-01**				**Soil**	
PCB-1016	1060327	6/19/01	6/20/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*58.9*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*48.9*	"	
S061301 South End of Transpit			**B106230-02**				**Soil**	
PCB-1016	1060327	6/19/01	6/19/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*32.6*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*38.5*	"	
E061301 East End of Transpit			**B106230-03**				**Soil**	
PCB-1016	1060327	6/19/01	6/19/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*55.0*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*48.2*	"	

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W061301 West End of Transpit			**B106230-01**				**Soil**	
Acenaphthene	1060348	6/19/01	6/20/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		90.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Naphthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*73.0*	*%*	
S061301 South End of Transpit			**B106230-02**				**Soil**	
Acenaphthene	1060348	6/19/01	6/20/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		90.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Naphthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*67.9*	*%*	

Great Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
E061301 East End of Transpit			**B106230-03**				**Soil**	
Acenaphthene	1060348	6/19/01	6/20/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		90.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
no (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Naphthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*103*	*%*	

Great Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W061301 West End of Transpit			**B106230-01**				**Soil**	
Benzene	1060312	6/18/01	6/22/01		0.500	**1.82**	ug/kg	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*24.5-178*		*112*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*16.7-220*		*124*	"	
Surrogate: Toluene-d8	"	"	"	*33.1-170*		*103*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*20.5-166*		*97.7*	"	
S061301 South End of Transpit			**B106230-02**				**Soil**	
Benzene	1060312	6/18/01	6/18/01		0.500	**2.59**	ug/kg	
ıene	"	"	"		5.00	**5.87**	"	
,ylbenzene	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*24.5-178*		*115*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*16.7-220*		*126*	"	
Surrogate: Toluene-d8	"	"	"	*33.1-170*		*99.8*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*20.5-166*		*97.8*	"	
E061301 East End of Transpit			**B106230-03**				**Soil**	
Benzene	1060312	6/18/01	6/18/01		0.500	**2.30**	ug/kg	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*24.5-178*		*119*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*16.7-220*		*126*	"	
Surrogate: Toluene-d8	"	"	"	*33.1-170*		*96.6*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*20.5-166*		*101*	"	

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**Refer to end of report for text of notes and definitions.*

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Johns Manville	Project:	LFR	Sampled:	6/13/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Dry Weight Determination
Great Lakes Analytical

Sample Name	Lab ID	Matrix	Result	Units
W061301 West End of Transpit	B106230-01	Soil	88.7	%
S061301 South End of Transpit	B106230-02	Soil	91.9	%
E061301 East End of Transpit	B106230-03	Soil	83.5	%

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polychlorinated Biphenyls by EPA Method 8082/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1060327	**Date Prepared: 6/19/01**					**Extraction Method: EPA 3550B**				
Blank	**1060327-BLK1**									
PCB-1016	6/19/01			**ND**	ug/kg	**25.0**				
PCB-1221	"			**ND**	"	**25.0**				
PCB-1232	"			**ND**	"	**25.0**				
PCB-1242	"			**ND**	"	**25.0**				
PCB-1248	"			**ND**	"	**25.0**				
PCB-1254	"			**ND**	"	**25.0**				
PCB-1260	"			**ND**	"	**25.0**				
Surrogate: Tetrachloro-meta-xylene	"	*33.0*		*22.7*	"	*22.2-110*	*68.8*			
Surrogate: Decachlorobiphenyl	"	*33.0*		*19.4*	"	*16.2-107*	*58.8*			
LCS	**1060327-BS1**									
PCB-1016	6/19/01	165		116	ug/kg	10.0-135	70.3			
PCB-1260	"	165		103	"	10.0-118	62.4			
Surrogate: Tetrachloro-meta-xylene	"	*32.9*		*22.3*	"	*22.2-110*	*67.8*			
Surrogate: Decachlorobiphenyl	"	*32.9*		*18.6*	"	*16.2-107*	*56.5*			
Matrix Spike	**1060327-MS1**		**B106201-01**							
PCB-1016	6/20/01	168	ND	78.9	ug/kg	14.3-134	**47.0**			
PCB-1260	"	168	ND	105	"	10.0-173	**62.5**			
Surrogate: Tetrachloro-meta-xylene	"	*33.5*		*23.0*	"	*22.2-110*	*68.7*			
Surrogate: Decachlorobiphenyl	"	*33.5*		*18.1*	"	*16.2-107*	*54.0*			
Matrix Spike Dup	**1060327-MSD1**		**B106201-01**							
PCB-1016	6/20/01	168	ND	67.1	ug/kg	14.3-134	**39.9**	74.2	**16.3**	
PCB-1260	"	168	ND	69.4	"	10.0-173	**41.3**	51.5	**40.8**	
Surrogate: Tetrachloro-meta-xylene	"	*33.6*		*15.5*	"	*22.2-110*	*46.1*			
Surrogate: Decachlorobiphenyl	"	*33.6*		*13.3*	"	*16.2-107*	*39.6*			

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polynuclear Aromatic Compounds by EPA Method 8310/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1060348	**Date Prepared: 6/19/01**					**Extraction Method: EPA 3550B**				
Blank	**1060348-BLK1**									
Acenaphthene	6/20/01			**ND**	ug/kg	**100**				
Acenaphthylene	"			**ND**	"	**200**				
Anthracene	"			**ND**	"	**100**				
Benz (a) anthracene	"			**ND**	"	**100**				
Benzo (a) pyrene	"			**ND**	"	**90.0**				
Benzo (b) fluoranthene	"			**ND**	"	**100**				
Benzo (ghi) perylene	"			**ND**	"	**100**				
Benzo (k) fluoranthene	"			**ND**	"	**100**				
Chrysene	"			**ND**	"	**100**				
Dibenz (a,h) anthracene	"			**ND**	"	**90.0**				
Fluoranthene	"			**ND**	"	**100**				
Fluorene	"			**ND**	"	**100**				
Indeno (1,2,3-cd) pyrene	"			**ND**	"	**100**				
Naphthalene	"			**ND**	"	**100**				
Phenanthrene	"			**ND**	"	**100**				
Pyrene	"			**ND**	"	**100**				
Surrogate: Carbazole	"	*16.5*		*17.0*	"	*29.0-132*	*103*			
LCS	**1060348-BS1**									
Acenaphthene	6/20/01	65.5		40.5	ug/kg	30.8-120	61.8			
Acenaphthylene	"	65.5		61.1	"	38.9-158	93.3			
Anthracene	"	65.5		38.0	"	32.9-122	58.0			
Benz (a) anthracene	"	65.5		44.3	"	40.5-125	67.6			
Benzo (a) pyrene	"	65.5		35.9	"	31.2-128	54.8			
Benzo (b) fluoranthene	"	65.5		46.7	"	45.0-132	71.3			
Benzo (ghi) perylene	"	65.5		42.0	"	38.7-137	64.1			
Benzo (k) fluoranthene	"	65.5		43.5	"	53.4-125	66.4			
Chrysene	"	65.5		51.0	"	46.5-129	77.9			
Dibenz (a,h) anthracene	"	65.5		42.4	"	42.8-134	64.7			
Fluoranthene	"	65.5		42.3	"	37.1-116	64.6			
Fluorene	"	65.5		41.5	"	40.8-108	63.4			
Indeno (1,2,3-cd) pyrene	"	65.5		47.6	"	51.0-115	72.7			
Naphthalene	"	65.5		37.1	"	22.7-116	56.6			
Phenanthrene	"	65.5		38.7	"	29.5-123	59.1			
Pyrene	"	65.5		42.6	"	44.5-118	65.0			
Surrogate: Carbazole	"	*16.4*		*11.4*	"	*29.0-132*	*69.5*			

Great Lakes Analytical

**Refer to end of report for text of notes and definitions.*

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GREAT LAKES ANALYTICAL

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Polynuclear Aromatic Compounds by EPA Method 8310/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike	**1060348-MS1**		**B106230-02**							
Acenaphthene	6/20/01	65.6	ND	36.3	ug/kg	10.0-154	**55.3**			
Acenaphthylene	"	65.6	ND	41.4	"	10.0-176	**63.1**			
Anthracene	"	65.6	ND	36.6	"	10.0-114	**55.8**			
Benz (a) anthracene	"	65.6	ND	42.5	"	10.0-118	**64.8**			
Benzo (a) pyrene	"	65.6	ND	38.9	"	10.0-133	**59.3**			
Benzo (b) fluoranthene	"	65.6	ND	42.3	"	10.0-126	**64.5**			
Benzo (ghi) perylene	"	65.6	ND	36.8	"	10.0-103	**56.1**			
Benzo (k) fluoranthene	"	65.6	ND	40.1	"	10.0-112	**61.1**			
Chrysene	"	65.6	ND	48.8	"	10.0-121	**74.4**			
Dibenz (a,h) anthracene	"	65.6	ND	36.9	"	13.9-101	**56.3**			
Fluoranthene	"	65.6	ND	37.4	"	10.0-123	**57.0**			
F[illegible]orene	"	65.6	ND	35.4	"	10.0-144	**54.0**			
[illegible]o (1,2,3-cd) pyrene	"	65.6	ND	41.1	"	10.0-103	**62.7**			
Naphthalene	"	65.6	ND	31.9	"	10.0-132	**48.6**			
Phenanthrene	"	65.6	ND	38.3	"	10.0-130	**58.4**			
Pyrene	"	65.6	ND	43.9	"	10.0-145	**66.9**			
Surrogate: Carbazole	"	*16.4*		*11.0*	"	*29.0-132*	*67.1*			
Matrix Spike Dup	**1060348-MSD1**		**B106230-02**							
Acenaphthene	6/20/01	66.0	ND	40.4	ug/kg	10.0-154	**61.2**	66.4	**10.1**	
Acenaphthylene	"	66.0	ND	54.0	"	10.0-176	**81.8**	65.7	**25.8**	
Anthracene	"	66.0	ND	40.2	"	10.0-114	**60.9**	67.1	**8.74**	
Benz (a) anthracene	"	66.0	ND	45.4	"	10.0-118	**68.8**	57.8	**5.99**	
Benzo (a) pyrene	"	66.0	ND	40.8	"	10.0-133	**61.8**	54.5	**4.13**	
Benzo (b) fluoranthene	"	66.0	ND	45.8	"	10.0-126	**69.4**	51.9	**7.32**	
Benzo (ghi) perylene	"	66.0	ND	39.1	"	10.0-103	**59.2**	65.9	**5.38**	
Benzo (k) fluoranthene	"	66.0	ND	43.1	"	10.0-112	**65.3**	59.3	**6.65**	
Chrysene	"	66.0	ND	52.6	"	10.0-121	**79.7**	65.2	**6.88**	
Dibenz (a,h) anthracene	"	66.0	ND	39.7	"	13.9-101	**60.2**	49.8	**6.70**	
Fluoranthene	"	66.0	ND	39.9	"	10.0-123	**60.5**	58.7	**5.96**	
Fluorene	"	66.0	ND	41.8	"	10.0-144	**63.3**	53.9	**15.9**	
Indeno (1,2,3-cd) pyrene	"	66.0	ND	45.6	"	10.0-103	**69.1**	55.8	**9.71**	
Naphthalene	"	66.0	ND	36.1	"	10.0-132	**54.7**	62.5	**11.8**	
Phenanthrene	"	66.0	ND	43.5	"	10.0-130	**65.9**	57.4	**12.1**	
Pyrene	"	66.0	ND	45.8	"	10.0-145	**69.4**	56.6	**3.67**	
Surrogate: Carbazole	"	*16.5*		*11.4*	"	*29.0-132*	*69.1*			

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**Refer to end of report for text of notes and definitions.*

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Volatile Organic Compounds by EPA Method 5035/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1060312	**Date Prepared: 6/18/01**				**Extraction Method: EPA 5035B [P/T]**					
Blank	**1060312-BLK1**									
Benzene	6/18/01			**ND**	ug/kg	**0.500**				
Toluene	"			**ND**	"	**5.00**				
Ethylbenzene	"			**ND**	"	**5.00**				
Total Xylenes	"			**ND**	"	**5.00**				
Surrogate: Dibromofluoromethane	"	*50.0*		*53.5*	"	*24.5-178*	*107*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.7*	"	*16.7-220*	*101*			
Surrogate: Toluene-d8	"	*50.0*		*49.1*	"	*33.1-170*	*98.2*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*50.2*	"	*20.5-166*	*100*			
LCS	**1060312-BS1**									
·ene	6/18/01	50.0		50.4	ug/kg	79.5-123	101			
ıene	"	50.0		51.5	"	84.1-126	103			
Ethylbenzene	"	50.0		54.6	"	86.1-118	109			
Total Xylenes	"	150		108	"	53.9-138	72.0			
Surrogate: Dibromofluoromethane	"	*50.0*		*55.1*	"	*24.5-178*	*110*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*55.0*	"	*16.7-220*	*110*			
Surrogate: Toluene-d8	"	*50.0*		*48.6*	"	*33.1-170*	*97.2*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*50.1*	"	*20.5-166*	*100*			
LCS Dup	**1060312-BSD1**									
Benzene	6/19/01	50.0		47.9	ug/kg	79.5-123	95.8	14.8	5.28	
Toluene	"	50.0		47.4	"	84.1-126	94.8	14.3	8.29	
Ethylbenzene	"	50.0		50.9	"	86.1-118	102	16.7	6.64	
Total Xylenes	"	150		144	"	53.9-138	96.0	31.7	28.6	
Surrogate: Dibromofluoromethane	"	*50.0*		*54.2*	"	*24.5-178*	*108*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*55.2*	"	*16.7-220*	*110*			
Surrogate: Toluene-d8	"	*50.0*		*48.8*	"	*33.1-170*	*97.6*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*49.4*	"	*20.5-166*	*98.8*			

ıat Lakes Analytical

**Refer to end of report for text of notes and definitions.*

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	6/14/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	6/22/01 17:04

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

at Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Buffalo Grove, IL 60089-4505
(847) 808-7766
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Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: JOHNS MANVILLE
Address: 1871 N. PERSHING RD
WAUKEGAN IL. 60087
Report to: DAVE PETERSON
Phone #: (847)
Fax #: (847) 360-4558

Bill To: DAVE PETERSON
Address: SAME
State & Program:
Phone #: (847)
Fax #: (847)

TAT: STD 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 7992.00 (LER)
Sampler: BXC
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	BTEX 8260	PNAS 8310	PCB's 8080	CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 W061301 WEST END OF TRANS-PIT PID: 1.5ppm	06/13/01	10:00	SAND	1	2					1	4	X	X	X			B106230-01
2 S061301 SOUTH END OF TRANS-PIT PID: 1.5ppm	↓	10:10	↓	1	2					1	4	X	X	X			02
3 E061301 EAST END OF TRANS-PIT PID: 1.7ppm	↓	10:20	↓	1	2					1	4	X	X	X			03
4 PID:				1	2					1	4						
5 PID:				1	2					1	4						
6 PID:																	
7 PID:																	
8 PID:																	
9 PID:																	
10 PID:																	

BXC 06/13/01

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
06/13/01 1200			6.14.01 1542
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

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July 30, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: LFR

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on July 19, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

① COAL PIT SAMPLING
INITIAL SAMPLING AT
NW, NE, SE CORNERS. ALSO
ALONG N WALL IN MIDDLE.

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CTP-NW-071901 Coal Tar Pit, NW	B107241-01	Soil	7/19/01
CTP-NC-071901 Coal Tar Pit, NC	B107241-02	Soil	7/19/01
CTP-NE-071901 Coal Tar Pit, NE	B107241-03	Soil	7/19/01
CTP-SE-071901 Coal Tar Pit, SE	B107241-04	Soil	7/19/01

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The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety

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Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	
Arsenic	1070468	7/25/01	7/26/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	**55.2**	"	
Cadmium	"	"	"	EPA 6010B	0.500	ND	"	
Chromium	"	"	"	EPA 6010B	0.500	**17.3**	"	
Lead	"	"	"	EPA 6010B	1.00	**220**	"	G15
Selenium	"	"	"	EPA 6010B	2.50	ND	"	G15,G2
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1070481	7/26/01	"	EPA 7471A	0.0400	**0.0728**	"	
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	
Arsenic	1070468	7/25/01	7/26/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	ND	"	
lmium	"	"	"	EPA 6010B	0.500	ND	"	
romium	"	"	"	EPA 6010B	0.500	**2.64**	"	
Lead	"	"	"	EPA 6010B	1.00	**26.3**	"	G15
Selenium	"	"	"	EPA 6010B	2.50	ND	"	G15,G2
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1070481	7/26/01	"	EPA 7471A	0.0400	**0.367**	"	
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	
Arsenic	1070468	7/25/01	7/26/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	**39.9**	"	
Cadmium	"	"	"	EPA 6010B	0.500	ND	"	
Chromium	"	"	"	EPA 6010B	0.500	**3.49**	"	
Lead	"	"	"	EPA 6010B	1.00	**127**	"	G15
Selenium	"	"	"	EPA 6010B	2.50	ND	"	G15,G
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1070481	7/26/01	"	EPA 7471A	0.0400	**0.151**	"	
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	
Arsenic	1070468	7/25/01	7/26/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	**26.8**	"	
Cadmium	"	"	"	EPA 6010B	0.500	ND	"	
Chromium	"	"	"	EPA 6010B	0.500	**7.68**	"	
Lead	"	"	"	EPA 6010B	1.00	**50.1**	"	G15
Selenium	"	"	"	EPA 6010B	2.50	ND	"	G15,G
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1070481	7/26/01	"	EPA 7471A	0.0400	**0.166**	"	

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**Refer to end of report for text of notes and definitions*

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SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	
Lead	1070491	7/26/01	7/26/01	EPA 7421	0.00500	**0.0297**	mg/l	
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	
Lead	1070491	7/26/01	7/26/01	EPA 7421	0.00500	ND	mg/l	
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	
Lead	1070491	7/26/01	7/26/01	EPA 7421	0.00500	ND	mg/l	
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	
Lead	1070491	7/26/01	7/26/01	EPA 7421	0.00500	ND	mg/l	

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Polychlorinated Biphenyls by EPA Method 8082
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	**G12**
PCB-1016	1070445	7/24/01	7/27/01		125	ND	ug/kg	
PCB-1221	"	"	"		125	ND	"	
PCB-1232	"	"	"		125	ND	"	
PCB-1242	"	"	"		125	ND	"	
PCB-1248	"	"	"		125	ND	"	
PCB-1254	"	"	"		125	ND	"	
PCB-1260	"	"	"		125	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*11.2*	%	*O4*
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*63.2*	"	
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	
PCB-1016	1070445	7/24/01	7/27/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*12.8*	%	*O4*
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*24.1*	"	
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	
PCB-1016	1070445	7/24/01	7/25/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	
PCB-1254	"	"	"		25.0	ND	"	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*15.4*	%	*O4*
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*21.9*	"	
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	
PCB-1016	1070445	7/24/01	7/25/01		25.0	ND	ug/kg	
PCB-1221	"	"	"		25.0	ND	"	
PCB-1232	"	"	"		25.0	ND	"	
PCB-1242	"	"	"		25.0	ND	"	
PCB-1248	"	"	"		25.0	ND	"	

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Polychlorinated Biphenyls by EPA Method 8082
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-SE-071901 Coal Tar Pit, SE (continued)			**B107241-04**				**Soil**	
PCB-1254	1070445	7/24/01	7/25/01		25.0	ND	ug/kg	
PCB-1260	"	"	"		25.0	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*22.2-110*		*16.5*	*%*	*O4*
Surrogate: Decachlorobiphenyl	"	"	"	*16.2-107*		*21.9*	"	

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Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	**G1,G15,G2**
Acenaphthene	1070391	7/20/01	7/25/01		100	**216**	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		1000	**1520**	"	G12
Benz (a) anthracene	"	"	"		100	**968**	"	
Benzo (a) pyrene	"	"	"		90.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	**643**	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	**1210**	"	
Dibenz (a,h) anthracene	"	"	"		90.0	**831**	"	
Fluoranthene	"	"	"		1000	**4380**	"	G12
Fluorene	"	"	"		100	ND	"	
'eno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
,phthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		1000	**3290**	"	G12
Pyrene	"	"	"		1000	**3410**	"	G12
Surrogate: Carbazole	"	"	"	*29.0-132*		*NR*	*%*	*O5*
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	**G1,G15,G**
Acenaphthene	1070391	7/20/01	7/25/01		100	**128**	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		90.0	**121**	"	
Benzo (b) fluoranthene	"	"	"		100	**138**	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	**154**	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	**366**	"	
Fluorene	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Naphthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	**250**	"	
Pyrene	"	"	"		100	**403**	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*110*	*%*	

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Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	**G1,G15,G2**
Acenaphthene	1070391	7/20/01	7/25/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	**176**	"	
Benz (a) anthracene	"	"	"		100	**134**	"	
Benzo (a) pyrene	"	"	"		90.0	**143**	"	
Benzo (b) fluoranthene	"	"	"		100	**177**	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	**159**	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	**314**	"	
Fluorene	"	"	"		100	ND	"	
eno (1,2,3-cd) pyrene	"	"	"		100	**131**	"	
..phthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	**205**	"	
Pyrene	"	"	"		100	**383**	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*118*	*%*	
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	**G1,G15,G2**
Acenaphthene	1070391	7/20/01	7/25/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		200	ND	"	
Anthracene	"	"	"		100	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		90.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		90.0	ND	"	
Fluoranthene	"	"	"		100	**193**	"	
Fluorene	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Naphthalene	"	"	"		100	ND	"	
Phenanthrene	"	"	"		100	**116**	"	
Pyrene	"	"	"		100	**192**	"	
Surrogate: Carbazole	"	"	"	*29.0-132*		*74.0*	*%*	

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Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	**G4,O2**
Acetone	1070502	7/26/01	7/25/01		25.0	**76.1**	ug/kg	A
Benzene	"	"	"		5.00	ND	"	
Bromodichloromethane	"	"	"		5.00	ND	"	
Bromoform	"	"	"		5.00	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
2-Butanone	"	"	"		10.0	ND	"	
Carbon disulfide	"	"	"		5.00	ND	"	
Carbon tetrachloride	"	"	"		5.00	ND	"	
Chlorobenzene	"	"	"		5.00	ND	"	
Chlorodibromomethane	"	"	"		5.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
Chloroform	"	"	"		5.00	ND	"	
romethane	"	"	"		5.00	ND	"	
-Dichloroethane	"	"	"		5.00	ND	"	
1,2-Dichloroethane	"	"	"		5.00	ND	"	
1,1-Dichloroethene	"	"	"		5.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		5.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		5.00	ND	"	
1,2-Dichloropropane	"	"	"		5.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		5.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
2-Hexanone	"	"	"		10.0	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
4-Methyl-2-pentanone	"	"	"		10.0	ND	"	
Styrene	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		5.00	ND	"	
Tetrachloroethene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
1,1,1-Trichloroethane	"	"	"		5.00	ND	"	
1,1,2-Trichloroethane	"	"	"		5.00	ND	"	
Trichloroethene	"	"	"		5.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	ND	"	
Vinyl acetate	"	"	"		10.0	ND	"	
Vinyl chloride	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*113*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*118*	"	

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Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW (continued)			**B107241-01**				**Soil**	**G4,O2**
Surrogate: Toluene-d8	*1070502*	*7/26/01*	*7/25/01*	*82.0-121*		*98.6*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*86.3*	*"*	

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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	**G4,O2**
Acetone	1070502	7/26/01	7/25/01		25.0	**95.1**	ug/kg	A
Benzene	"	"	"		5.00	ND	"	
Bromodichloromethane	"	"	"		5.00	ND	"	
Bromoform	"	"	"		5.00	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
2-Butanone	"	"	"		10.0	ND	"	
Carbon disulfide	"	"	"		5.00	**7.18**	"	
Carbon tetrachloride	"	"	"		5.00	ND	"	
Chlorobenzene	"	"	"		5.00	ND	"	
Chlorodibromomethane	"	"	"		5.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
Chloroform	"	"	"		5.00	ND	"	
romethane	"	"	"		5.00	ND	"	
-Dichloroethane	"	"	"		5.00	ND	"	
1,2-Dichloroethane	"	"	"		5.00	ND	"	
1,1-Dichloroethene	"	"	"		5.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		5.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		5.00	ND	"	
1,2-Dichloropropane	"	"	"		5.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		5.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
2-Hexanone	"	"	"		10.0	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
4-Methyl-2-pentanone	"	"	"		10.0	ND	"	
Styrene	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		5.00	ND	"	
Tetrachloroethene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
1,1,1-Trichloroethane	"	"	"		5.00	ND	"	
1,1,2-Trichloroethane	"	"	"		5.00	ND	"	
Trichloroethene	"	"	"		5.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	ND	"	
Vinyl acetate	"	"	"		10.0	ND	"	
Vinyl chloride	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*110*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*118*	"	

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1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NC-071901 Coal Tar Pit, NC (continued)			**B107241-02**				**Soil**	**G4,O2**
Surrogate: Toluene-d8	*1070502*	*7/26/01*	*7/25/01*	*82.0-121*		*97.6*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*80.4*	*"*	

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Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	**G4,O2**
Acetone	1070502	7/26/01	7/25/01		25.0	**165**	ug/kg	A
Benzene	"	"	"		5.00	ND	"	
Bromodichloromethane	"	"	"		5.00	ND	"	
Bromoform	"	"	"		5.00	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
2-Butanone	"	"	"		10.0	**27.7**	"	A
Carbon disulfide	"	"	"		5.00	**21.0**	"	
Carbon tetrachloride	"	"	"		5.00	ND	"	
Chlorobenzene	"	"	"		5.00	ND	"	
Chlorodibromomethane	"	"	"		5.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
Chloroform	"	"	"		5.00	ND	"	
'oromethane	"	"	"		5.00	ND	"	
-Dichloroethane	"	"	"		5.00	ND	"	
1,2-Dichloroethane	"	"	"		5.00	ND	"	
1,1-Dichloroethene	"	"	"		5.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		5.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		5.00	ND	"	
1,2-Dichloropropane	"	"	"		5.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		5.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
2-Hexanone	"	"	"		10.0	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
4-Methyl-2-pentanone	"	"	"		10.0	ND	"	
Styrene	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		5.00	ND	"	
Tetrachloroethene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	**8.51**	"	
1,1,1-Trichloroethane	"	"	"		5.00	ND	"	
1,1,2-Trichloroethane	"	"	"		5.00	ND	"	
Trichloroethene	"	"	"		5.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	ND	"	
Vinyl acetate	"	"	"		10.0	ND	"	
Vinyl chloride	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*109*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*114*	"	

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Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-NE-071901 Coal Tar Pit, NE (continued)			**B107241-03**				**Soil**	**G4,O2**
Surrogate: Toluene-d8	*1070502*	*7/26/01*	*7/25/01*	*82.0-121*		*96.3*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*77.7*	*"*	

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Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	**G4,O2**
Acetone	1070502	7/26/01	7/25/01		25.0	**238**	ug/kg	A
Benzene	"	"	"		5.00	ND	"	
Bromodichloromethane	"	"	"		5.00	ND	"	
Bromoform	"	"	"		5.00	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
2-Butanone	"	"	"		10.0	**41.8**	"	A
Carbon disulfide	"	"	"		5.00	**29.7**	"	
Carbon tetrachloride	"	"	"		5.00	ND	"	
Chlorobenzene	"	"	"		5.00	ND	"	
Chlorodibromomethane	"	"	"		5.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
Chloroform	"	"	"		5.00	ND	"	
romomethane	"	"	"		5.00	ND	"	
Dichloroethane	"	"	"		5.00	ND	"	
1,2-Dichloroethane	"	"	"		5.00	ND	"	
1,1-Dichloroethene	"	"	"		5.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		5.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		5.00	ND	"	
1,2-Dichloropropane	"	"	"		5.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		5.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
2-Hexanone	"	"	"		10.0	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
4-Methyl-2-pentanone	"	"	"		10.0	ND	"	
Styrene	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		5.00	ND	"	
Tetrachloroethene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
1,1,1-Trichloroethane	"	"	"		5.00	ND	"	
1,1,2-Trichloroethane	"	"	"		5.00	ND	"	
Trichloroethene	"	"	"		5.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	**12.2**	"	
Vinyl acetate	"	"	"		10.0	ND	"	
Vinyl chloride	"	"	"		5.00	ND	"	
Total Xylenes	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*107*	*%*	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*118*	"	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CTP-SE-071901 Coal Tar Pit, SE (continued)			**B107241-04**				**Soil**	**G4,O2**
Surrogate: Toluene-d8	*1070502*	*7/26/01*	*7/25/01*	*82.0-121*		*97.2*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*78.6*	*"*	

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General Chemistry
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CTP-NW-071901 Coal Tar Pit, NW			**B107241-01**				**Soil**	
Reactive Cyanide	1070512	7/26/01	7/26/01	EPA 7.3.3	0.130	ND	mg/kg	
Reactive Sulfide	1070527	"	7/27/01	EPA 7.3.4	6.50	**22.1**	"	
pH	1070514	"	7/26/01	EPA 9045B		**6.85**	pH Units	
CTP-NC-071901 Coal Tar Pit, NC			**B107241-02**				**Soil**	
Reactive Cyanide	1070512	7/26/01	7/26/01	EPA 7.3.3	0.130	ND	mg/kg	
Reactive Sulfide	1070527	"	7/27/01	EPA 7.3.4	6.50	**132**	"	
pH	1070514	"	7/26/01	EPA 9045B		**7.05**	pH Units	
CTP-NE-071901 Coal Tar Pit, NE			**B107241-03**				**Soil**	
Reactive Cyanide	1070512	7/26/01	7/26/01	EPA 7.3.3	0.130	ND	mg/kg	
Reactive Sulfide	1070527	"	7/27/01	EPA 7.3.4	6.50	**43.7**	"	
	1070514	"	7/26/01	EPA 9045B		**6.74**	pH Units	
CTP-SE-071901 Coal Tar Pit, SE			**B107241-04**				**Soil**	
Reactive Cyanide	1070512	7/26/01	7/26/01	EPA 7.3.3	0.130	ND	mg/kg	
Reactive Sulfide	1070527	"	7/27/01	EPA 7.3.4	6.50	**182**	"	
pH	1070514	"	7/26/01	EPA 9045B		**6.94**	pH Units	

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Dry Weight Determination
Great Lakes Analytical

Sample Name	Lab ID	Matrix	Result	Units
CTP-NW-071901 Coal Tar Pit, NW	B107241-01	Soil	62.2	%
CTP-NC-071901 Coal Tar Pit, NC	B107241-02	Soil	68.1	%
CTP-NE-071901 Coal Tar Pit, NE	B107241-03	Soil	31.4	%
CTP-SE-071901 Coal Tar Pit, SE	B107241-04	Soil	20.9	%

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Total Metals by EPA 6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070468	**Date Prepared: 7/25/01**					**Extraction Method: EPA 3050B**				
Blank	**1070468-BLK1**									
Arsenic	7/26/01			ND	mg/kg	2.50				
Barium	"			ND	"	25.0				
Cadmium	"			ND	"	0.500				
Chromium	"			ND	"	0.500				
Lead	"			ND	"	1.00				
Selenium	"			ND	"	2.50				
Silver	"			ND	"	2.50				
LCS	**1070468-BS1**									
Arsenic	7/26/01	106		108	mg/kg	81.1-121	102			
Barium	"	200		206	"	72.9-121	103			
'mium	"	200		207	"	74.3-118	104			
,omium	"	200		208	"	72.2-121	104			
Lead	"	201		206	"	72.2-121	102			
Selenium	"	56.0		55.9	"	73.1-120	99.8			
Silver	"	200		171	"	10.0-155	85.5			
Matrix Spike	**1070468-MS1**		**B107241-01**							
Arsenic	7/26/01	103	ND	85.0	mg/kg	53.1-117	82.5			
Barium	"	194	55.2	207	"	54.3-111	78.2			
Cadmium	"	194	ND	163	"	52.5-108	84.0			
Chromium	"	194	17.3	179	"	43.3-115	83.4			
Lead	"	195	220	307	"	43.3-115	44.6			
Selenium	"	54.4	ND	22.4	"	47.3-113	41.2			
Silver	"	194	ND	125	"	10.0-117	64.4			
Matrix Spike Dup	**1070468-MSD1**		**B107241-01**							
Arsenic	7/26/01	101	ND	80.2	mg/kg	53.1-117	79.4	26.7	3.83	
Barium	"	190	55.2	207	"	54.3-111	79.9	28.8	2.15	
Cadmium	"	190	ND	153	"	52.5-108	80.5	24.9	4.26	
Chromium	"	190	17.3	175	"	43.3-115	83.0	24.1	0.481	
Lead	"	192	220	378	"	43.3-115	82.3	24.1	59.4	
Selenium	"	53.3	ND	14.4	"	47.3-113	27.0	25.3	41.6	
Silver	"	190	ND	123	"	10.0-117	64.7	40.2	0.465	

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Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070481	**Date Prepared: 7/26/01**					**Extraction Method: EPA 7471A**				
Blank	**1070481-BLK1**									
Mercury	7/26/01			ND	mg/kg	0.0400				
LCS	**1070481-BS1**									
Mercury	7/26/01	0.200		0.215	mg/kg	71.9-126	108			
Matrix Spike	**1070481-MS1**		**B107241-01**							
Mercury	7/26/01	0.200	0.0728	0.272	mg/kg	38.3-154	99.6			
Matrix Spike Dup	**1070481-MSD1**		**B107241-01**							
Mercury	7/26/01	0.179	0.0728	0.261	mg/kg	38.3-154	105	9.52	5.28	

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SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070491	**Date Prepared: 7/26/01**					**Extraction Method: EPA 3010A**				
Blank	**1070491-BLK1**									
Lead	7/26/01			**ND**	mg/l	**0.00500**				
LCS	**1070491-BS1**									
Lead	7/26/01	0.0240		0.0225	mg/l	79.0-122	93.8			
Matrix Spike	**1070491-MS1**		**B107241-01**							
Lead	7/26/01	0.0240	0.0297	0.0527	mg/l	73.0-126	**95.8**			
Matrix Spike Dup	**1070491-MSD1**		**B107241-01**							
Lead	7/26/01	0.0240	0.0297	0.0547	mg/l	73.0-126	**104**	14.0	**8.21**	

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Polychlorinated Biphenyls by EPA Method 8082/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070445	**Date Prepared: 7/24/01**					**Extraction Method: EPA 3550B**				
Blank	**1070445-BLK1**									
PCB-1016	7/25/01			ND	ug/kg	25.0				
PCB-1221	"			ND	"	25.0				
PCB-1232	"			ND	"	25.0				
PCB-1242	"			ND	"	25.0				
PCB-1248	"			ND	"	25.0				
PCB-1254	"			ND	"	25.0				
PCB-1260	"			ND	"	25.0				
Surrogate: Tetrachloro-meta-xylene	"	*33.5*		*16.1*	"	*22.2-110*	*48.1*			
Surrogate: Decachlorobiphenyl	"	*33.5*		*30.5*	"	*16.2-107*	*91.0*			
LCS	**1070445-BS1**									
PCB-1016	7/25/01	167		134	ug/kg	10.0-135	80.2			
PCB-1260	"	167		135	"	10.0-118	80.8			
Surrogate: Tetrachloro-meta-xylene	"	*33.4*		*16.2*	"	*22.2-110*	*48.5*			
Surrogate: Decachlorobiphenyl	"	*33.4*		*28.0*	"	*16.2-107*	*83.8*			
Matrix Spike	**1070445-MS1**		**B107289-01**							
PCB-1016	7/25/01	167	ND	147	ug/kg	14.3-134	88.0			
PCB-1260	"	167	ND	156	"	10.0-173	93.4			
Surrogate: Tetrachloro-meta-xylene	"	*33.5*		*17.5*	"	*22.2-110*	*52.2*			
Surrogate: Decachlorobiphenyl	"	*33.5*		*32.5*	"	*16.2-107*	*97.0*			
Matrix Spike Dup	**1070445-MSD1**		**B107289-01**							
PCB-1016	7/25/01	162	ND	160	ug/kg	14.3-134	98.8	74.2	11.6	
PCB-1260	"	162	ND	147	"	10.0-173	90.7	51.5	2.93	
Surrogate: Tetrachloro-meta-xylene	"	*32.4*		*16.5*	"	*22.2-110*	*50.9*			
Surrogate: Decachlorobiphenyl	"	*32.4*		*32.3*	"	*16.2-107*	*99.7*			

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**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Polynuclear Aromatic Compounds by EPA Method 8310/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070391	**Date Prepared: 7/20/01**				**Extraction Method: EPA 3550B**					
Blank	**1070391-BLK1**									
Acenaphthene	7/25/01			ND	ug/kg	100				
Acenaphthylene	"			ND	"	200				
Anthracene	"			ND	"	100				
Benz (a) anthracene	"			ND	"	100				
Benzo (a) pyrene	"			ND	"	90.0				
Benzo (b) fluoranthene	"			ND	"	100				
Benzo (ghi) perylene	"			ND	"	100				
Benzo (k) fluoranthene	"			ND	"	100				
Chrysene	"			ND	"	100				
Dibenz (a,h) anthracene	"			ND	"	90.0				
Fluoranthene	"			ND	"	100				
›rene	"			ND	"	100				
›no (1,2,3-cd) pyrene	"			ND	"	100				
Naphthalene	"			ND	"	100				
Phenanthrene	"			ND	"	100				
Pyrene	"			ND	"	100				
Surrogate: Carbazole	"	*16.3*		*14.3*	"	*29.0-132*	*87.7*			
LCS	**1070391-BS1**									
Acenaphthene	7/25/01	67.4		34.8	ug/kg	30.8-120	51.6			
Acenaphthylene	"	67.4		96.1	"	38.9-158	143			
Anthracene	"	67.4		45.8	"	32.9-122	68.0			
Benz (a) anthracene	"	67.4		49.0	"	40.5-125	72.7			
Benzo (a) pyrene	"	67.4		43.7	"	31.2-128	64.8			
Benzo (b) fluoranthene	"	67.4		48.0	"	45.0-132	71.2			
Benzo (ghi) perylene	"	67.4		52.2	"	38.7-137	77.4			
Benzo (k) fluoranthene	"	67.4		49.0	"	53.4-125	72.7			
Chrysene	"	67.4		51.3	"	46.5-129	76.1			
Dibenz (a,h) anthracene	"	67.4		48.0	"	42.8-134	71.2			
Fluoranthene	"	67.4		51.1	"	37.1-116	75.8			
Fluorene	"	67.4		46.2	"	40.8-108	68.5			
Indeno (1,2,3-cd) pyrene	"	67.4		49.3	"	51.0-115	73.1			
Naphthalene	"	67.4		61.2	"	22.7-116	90.8			
Phenanthrene	"	67.4		49.1	"	29.5-123	72.8			
Pyrene	"	67.4		51.8	"	44.5-118	76.9			
Surrogate: Carbazole	"	*16.8*		*11.9*	"	*29.0-132*	*70.8*			

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070502	**Date Prepared: 7/26/01**				**Extraction Method: EPA 5035B [P/T]**					
Blank	**1070502-BLK1**									
Acetone	7/24/01			ND	ug/kg	25.0				
Benzene	"			ND	"	5.00				
Bromodichloromethane	"			ND	"	5.00				
Bromoform	"			ND	"	5.00				
Bromomethane	"			ND	"	5.00				
2-Butanone	"			ND	"	10.0				
Carbon disulfide	"			ND	"	5.00				
Carbon tetrachloride	"			ND	"	5.00				
Chlorobenzene	"			ND	"	5.00				
Chlorodibromomethane	"			ND	"	5.00				
Chloroethane	"			ND	"	5.00				
oroform	"			ND	"	5.00				
oromethane	"			ND	"	5.00				
1,1-Dichloroethane	"			ND	"	5.00				
1,2-Dichloroethane	"			ND	"	5.00				
1,1-Dichloroethene	"			ND	"	5.00				
cis-1,2-Dichloroethene	"			ND	"	5.00				
trans-1,2-Dichloroethene	"			ND	"	5.00				
1,2-Dichloropropane	"			ND	"	5.00				
cis-1,3-Dichloropropene	"			ND	"	5.00				
trans-1,3-Dichloropropene	"			ND	"	5.00				
Ethylbenzene	"			ND	"	5.00				
2-Hexanone	"			ND	"	10.0				
Methylene chloride	"			ND	"	5.00				
4-Methyl-2-pentanone	"			ND	"	10.0				
Styrene	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	5.00				
Tetrachloroethene	"			ND	"	5.00				
Toluene	"			ND	"	5.00				
1,1,1-Trichloroethane	"			ND	"	5.00				
1,1,2-Trichloroethane	"			ND	"	5.00				
Trichloroethene	"			ND	"	5.00				
Trichlorofluoromethane	"			ND	"	5.00				
Vinyl acetate	"			ND	"	10.0				
Vinyl chloride	"			ND	"	5.00				
Total Xylenes	"			ND	"	5.00				
Surrogate: Dibromofluoromethane	"	*50.0*		*49.5*	"	*81.2-134*	*99.0*			

Great Lakes Analytical

**Refer to end of report for text of notes and definitions*

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**1070502-BLK1**									
Surrogate: 1,2-Dichloroethane-d4	*7/24/01*	*50.0*		*55.3*	*ug/kg*	*50.8-145*	*111*			
Surrogate: Toluene-d8	*"*	*50.0*		*52.0*	*"*	*82.0-121*	*104*			
Surrogate: 4-Bromofluorobenzene	*"*	*50.0*		*51.4*	*"*	*76.8-113*	*103*			
LCS	**1070502-BS1**									
Acetone	7/24/01	50.0		62.9	ug/kg	10.0-166	126			
Benzene	"	50.0		47.9	"	62.1-138	95.8			
Bromodichloromethane	"	50.0		49.2	"	64.3-125	98.4			
Bromoform	"	50.0		48.6	"	47.5-124	97.2			
Bromomethane	"	50.0		22.5	"	49.2-198	45.0			
2-Butanone	"	50.0		57.8	"	10.0-214	116			
Carbon disulfide	"	50.0		43.0	"	10.0-175	86.0			
'bon tetrachloride	"	50.0		49.3	"	51.1-134	98.6			
.orobenzene	"	50.0		45.7	"	63.5-135	91.4			
Chlorodibromomethane	"	50.0		46.6	"	67.5-121	93.2			
Chloroethane	"	50.0		26.1	"	10.0-537	52.2			
Chloroform	"	50.0		42.9	"	69.2-124	85.8			
Chloromethane	"	50.0		49.4	"	67.4-162	98.8			
1,1-Dichloroethane	"	50.0		42.1	"	63.0-127	84.2			
1,2-Dichloroethane	"	50.0		48.9	"	57.5-125	97.8			
1,1-Dichloroethene	"	50.0		44.0	"	59.9-129	88.0			
cis-1,2-Dichloroethene	"	50.0		43.5	"	64.4-137	87.0			
trans-1,2-Dichloroethene	"	50.0		42.9	"	59.0-136	85.8			
1,2-Dichloropropane	"	50.0		49.2	"	66.3-132	98.4			
cis-1,3-Dichloropropene	"	50.0		51.2	"	67.9-124	102			
trans-1,3-Dichloropropene	"	50.0		60.5	"	63.6-124	121			
Ethylbenzene	"	50.0		46.7	"	60.0-141	93.4			
2-Hexanone	"	50.0		55.2	"	10.0-175	110			
Methylene chloride	"	50.0		42.8	"	28.4-149	85.6			
4-Methyl-2-pentanone	"	50.0		53.8	"	10.0-188	108			
Styrene	"	50.0		45.2	"	64.6-136	90.4			
1,1,2,2-Tetrachloroethane	"	50.0		49.7	"	68.4-137	99.4			
Tetrachloroethene	"	50.0		47.3	"	57.6-142	94.6			
Toluene	"	50.0		47.3	"	64.1-134	94.6			
1,1,1-Trichloroethane	"	50.0		44.9	"	60.0-134	89.8			
1,1,2-Trichloroethane	"	50.0		50.2	"	76.4-125	100			
Trichloroethene	"	50.0		45.3	"	61.8-132	90.6			
Trichlorofluoromethane	"	50.0		80.5	"	14.6-241	161			

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1070502-BS1**									
Vinyl acetate	7/24/01	50.0		52.1	ug/kg	10.0-161	104			
Vinyl chloride	"	50.0		55.6	"	57.9-143	111			
Total Xylenes	"	150		152	"	60.0-141	101			
Surrogate: Dibromofluoromethane	"	*50.0*		*40.2*	"	*81.2-134*	*80.4*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*45.3*	"	*50.8-145*	*90.6*			
Surrogate: Toluene-d8	"	*50.0*		*43.5*	"	*82.0-121*	*87.0*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*42.7*	"	*76.8-113*	*85.4*			
LCS Dup	**1070502-BSD1**									
Acetone	7/25/01	50.0		63.6	ug/kg	10.0-166	127	345	0.791	
Benzene	"	50.0		48.2	"	62.1-138	96.4	41.4	0.624	
Bromodichloromethane	"	50.0		49.2	"	64.3-125	98.4	42.0	0	
[illegible]noform	"	50.0		46.1	"	47.5-124	92.2	57.4	5.28	
[illegible]omomethane	"	50.0		26.1	"	49.2-198	52.2	61.9	14.8	
2-Butanone	"	50.0		50.8	"	10.0-214	102	173	12.8	
Carbon disulfide	"	50.0		41.0	"	10.0-175	82.0	126	4.76	
Carbon tetrachloride	"	50.0		48.3	"	51.1-134	96.6	43.5	2.05	
Chlorobenzene	"	50.0		46.0	"	63.5-135	92.0	39.0	0.654	
Chlorodibromomethane	"	50.0		44.4	"	67.5-121	88.8	41.6	4.84	
Chloroethane	"	50.0		33.7	"	10.0-537	67.4	90.3	25.4	
Chloroform	"	50.0		42.8	"	69.2-124	85.6	43.5	0.233	
Chloromethane	"	50.0		44.9	"	67.4-162	89.8	71.8	9.54	
1,1-Dichloroethane	"	50.0		42.1	"	63.0-127	84.2	41.8	0	
1,2-Dichloroethane	"	50.0		48.4	"	57.5-125	96.8	68.6	1.03	
1,1-Dichloroethene	"	50.0		42.1	"	59.9-129	84.2	47.5	4.41	
cis-1,2-Dichloroethene	"	50.0		42.7	"	64.4-137	85.4	39.3	1.86	
trans-1,2-Dichloroethene	"	50.0		43.2	"	59.0-136	86.4	43.0	0.697	
1,2-Dichloropropane	"	50.0		49.8	"	66.3-132	99.6	38.1	1.21	
cis-1,3-Dichloropropene	"	50.0		50.7	"	67.9-124	101	41.5	0.985	
trans-1,3-Dichloropropene	"	50.0		57.9	"	63.6-124	116	57.2	4.22	
Ethylbenzene	"	50.0		46.5	"	60.0-141	93.0	42.7	0.429	
2-Hexanone	"	50.0		52.1	"	10.0-175	104	128	5.61	
Methylene chloride	"	50.0		42.5	"	28.4-149	85.0	67.4	0.703	
4-Methyl-2-pentanone	"	50.0		51.1	"	10.0-188	102	119	5.71	
Styrene	"	50.0		45.4	"	64.6-136	90.8	37.2	0.442	
1,1,2,2-Tetrachloroethane	"	50.0		47.4	"	68.4-137	94.8	54.6	4.74	
Tetrachloroethene	"	50.0		46.5	"	57.6-142	93.0	46.3	1.71	
Toluene	"	50.0		48.2	"	64.1-134	96.4	42.6	1.88	

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**Refer to end of report for text of notes and definitions.*

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Volatile Organic Compounds by EPA Method 5035/8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS Dup (continued)	**1070502-BSD1**									
1,1,1-Trichloroethane	7/25/01	50.0		44.5	ug/kg	60.0-134	89.0	44.2	0.895	
1,1,2-Trichloroethane	"	50.0		50.0	"	76.4-125	100	53.2	0	
Trichloroethene	"	50.0		45.6	"	61.8-132	91.2	43.5	0.660	
Trichlorofluoromethane	"	50.0		71.9	"	14.6-241	144	115	11.1	
Vinyl acetate	"	50.0		49.8	"	10.0-161	99.6	92.1	4.32	
Vinyl chloride	"	50.0		44.1	"	57.9-143	88.2	81.0	22.9	
Total Xylenes	"	150		152	"	60.0-141	101	40.1	0	
Surrogate: Dibromofluoromethane	"	*50.0*		*39.5*	"	*81.2-134*	*79.0*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*43.9*	"	*50.8-145*	*87.8*			
Surrogate: Toluene-d8	"	*50.0*		*44.3*	"	*82.0-121*	*88.6*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*43.5*	"	*76.8-113*	*87.0*			

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

General Chemistry/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1070512	**Date Prepared: 7/26/01**				**Extraction Method: General Prep WC**					
Blank	**1070512-BLK1**									
Reactive Cyanide	7/26/01			**ND**	mg/kg	**0.130**				
LCS	**1070512-BS1**									
Reactive Cyanide	7/26/01	0.992		0.806	mg/kg	20.0-100	81.3			
Matrix Spike	**1070512-MS1**		**B107241-01**							
Reactive Cyanide	7/26/01	12.2	ND	7.95	mg/kg	20.0-100	**65.2**			
Matrix Spike Dup	**1070512-MSD1**		**B107241-01**							
Reactive Cyanide	7/26/01	12.2	ND	7.99	mg/kg	20.0-100	**65.5**	18.0	**0.459**	
ch: 1070514	**Date Prepared: 7/26/01**				**Extraction Method: General Prep WC**					
LCS	**1070514-BS1**									
pH	7/26/01	7.00		7.00	pH Units	98.6-101	100			
LCS Dup	**1070514-BSD1**									
pH	7/26/01	7.00		7.00	pH Units	98.6-101	100	1.00	0	
Duplicate	**1070514-DUP1**		**B107241-01**							
pH	7/26/01		6.85	6.87	pH Units			1.00	**0.292**	
Batch: 1070527	**Date Prepared: 7/26/01**				**Extraction Method: General Prep WC**					
Blank	**1070527-BLK1**									
Reactive Sulfide	7/27/01			**ND**	mg/kg	**6.50**				
LCS	**1070527-BS1**									
Reactive Sulfide	7/27/01	13.7		ND	mg/kg	27.0-131	NR			
Matrix Spike	**1070527-MS1**		**B107241-01**							
Reactive Sulfide	7/27/01	1680	22.1	899	mg/kg	10.0-143	**52.2**			
Matrix Spike Dup	**1070527-MSD1**		**B107241-01**							
Reactive Sulfide	7/27/01	1680	22.1	899	mg/kg	10.0-143	**52.2**	20.0	**0**	

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**Refer to end of report for text of notes and definitions.*

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Johns Manville	Project:	LFR	Sampled:	7/19/01
1871 N. Pershing Rd.	Project Number:	7992.00	Received:	7/19/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	7/30/01 07:24

Notes and Definitions

#	Note
A	The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
G1	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G2	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
[illegible]	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
O2	One or more internal standard recoveries were below the method specified acceptance criteria.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

at Lakes Analytical

Andy Johnson, Project Manager

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CHAIN OF CUSTODY REPORT

Client: JOHNS MANVILLE
Address: 1871 NORTH PERSHING RD
WAUKEGAN IL. 60087
Report to: DAVE PETERSON Phone #: (847) 360-4439 Fax #: (847) 360-4558

Bill To: SAME
Address:
State & Program:
Phone #: ( ) Fax #: ( )

TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical BXC
☒ NO - TAT is not critical
DATE RESULTS NEEDED: 07/27/01
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project:
Sampler: BXC (LFR)
PO/Quote #:

#	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	EPA 8260	EPA 8310	SPLP LEAD	RCRA METALS	PCB's	P.H.	REACTIVE CYANIDE	REACTIVE SULFIDE			CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	CTP-NW-071901 COAL TAR PIT, NORTH WEST PID: 50ppm	07/19/01	1005	Soil	1	2					2	5	X	X	X	X	X	X	X	X					B107241-01
2	CTP-NC-071901 COAL TAR PIT, NORTH CENTER PID: 100ppm	↓	1024	↓	1	2					2	5	X	X	X	X	X	X	X	X					-02
3	CTP-NE-071901 COAL TAR PIT, NORTH EAST PID: 80ppm		1114		1	2					2	5	X	X	X	X	X	X	X	X					-03
4	CTP-SE-071901 COAL TAR PIT, SOUTH EAST PID: 60ppm	↓	1130	↓	1	2					2	5	X	X	X	X	X	X	X	X					-04
5	PID:																								
6	PID:																								
7	PID:																								
8	PID:																								
9	PID:																								
10	PID:																								

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
07/19/01 1300	7-19 1605	7-19 1645	7.20.01 710
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email. info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

August 13, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: LFR

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on August 10, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

First step rpts

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	LFR	Sampled:	8/10/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/10/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/13/01 16:51

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CTP-NW-1081001 North West	B108195-01	Soil	8/10/01
CTP-NW-2081001 E-20'	B108195-02	Soil	8/10/01
CTP-NW-3081001 E-20' &S-20'	B108195-03	Soil	8/10/01
CTP-NW-4081001 E-40'	B108195-04	Soil	8/10/01
CTP-NW-5081001 E-40' &S-20'	B108195-05	Soil	8/10/01
CTP-NW-6081001 S-20'	B108195-06	Soil	8/10/01
CTP-NW-7081001 S-40'	B108195-07	Soil	8/10/01
CTP-NW-8081001 S-40' &E20'	B108195-08	Soil	8/10/01

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	LFR	Sampled:	8/10/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/10/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/13/01 16:51

TCLP Metals by EPA 1311/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CTP-NW-1081001 North West			B108195-01				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.629	mg/l	
CTP-NW-2081001 E-20'			B108195-02				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.0319	mg/l	
CTP-NW-3081001 E-20' &S-20'			B108195-03				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.678	mg/l	
CTP-NW-4081001 E-40'			B108195-04				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.105	2.43	mg/l	
CTP-NW-5081001 E-40' &S-20'			B108195-05				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.0561	mg/l	
CTP-NW-6081001 S-20'			B108195-06				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.237	mg/l	
CTP-NW-7081001 S-40'			B108195-07				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.0525	mg/l	
CTP-NW-8081001 S-40' &E20'			B108195-08				Soil	
Lead	1080236	8/13/01	8/13/01	EPA 7421	0.00500	0.116	mg/l	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	LFR	Sampled:	8/10/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/10/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/13/01 16:51

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CTP-NW-1081001 North West			B108195-01				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	0.0740	mg/l	
CTP-NW-2081001 E-20'			B108195-02				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	ND	mg/l	
CTP-NW-3081001 E-20'&S-20'			B108195-03				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	ND	mg/l	
CTP-NW-4081001 E-40'			B108195-04				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	ND	mg/l	
CTP-NW-5081001 E-40'&S-20'			B108195-05				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	ND	mg/l	
CTP-NW-6081001 S-20'			B108195-06				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	0.0384	mg/l	
CTP-NW-7081001 S-40'			B108195-07				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	ND	mg/l	
CTP-NW-8081001 S-40'&E20'			B108195-08				Soil	
Lead	1080237	8/13/01	8/13/01	EPA 7421	0.00500	0.0282	mg/l	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	LFR	Sampled:	8/10/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/10/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/13/01 16:51

TCLP Metals by EPA 1311/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080236	Date Prepared: 8/13/01				Extraction Method: EPA 3010A TCLP					
Blank	1080236-BLK1									
Lead	8/13/01			ND	mg/l	0.00500				
LCS	1080236-BS1									
Lead	8/13/01	0.0240		0.0205	mg/l	59.9-152	85.4			
Matrix Spike	1080236-MS1		B108086-01							
Lead	8/13/01	0.0240	0.00580	0.0308	mg/l	35.2-176	104			
Matrix Spike Dup	1080236-MSD1		B108086-01							
Lead	8/13/01	0.0240	0.00580	0.0274	mg/l	35.2-176	90.0	35.3	14.4	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	LFR	Sampled:	8/10/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/10/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/13/01 16:51

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080237	**Date Prepared: 8/13/01**				**Extraction Method: EPA 3010A**					
Blank	**1080237-BLK1**									
Lead	8/13/01			ND	mg/l	0.00500				
LCS	**1080237-BS1**									
Lead	8/13/01	0.0240		0.0209	mg/l	79.0-122	87.1			
Matrix Spike	**1080237-MS1**		**B108195-01**							
Lead	8/13/01	0.0240	0.0740	0.0938	mg/l	73.0-126	82.5			
Matrix Spike Dup	**1080237-MSD1**		**B108195-01**							
Lead	8/13/01	0.0240	0.0740	0.0948	mg/l	73.0-126	86.7	14.0	4.96	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

August 27, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: Johns Manville, Coal Pit

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on August 24, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/24/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/27/01 13:52

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CP-NW-1082401 Coal Pit,40S&40E	B108390-01	Soil	8/24/01
CP-NW-2082401 Coal Pit,60S&20E	B108390-02	Soil	8/24/01
CP-NW-3082401 Coal Pit,60S&40E	B108390-03	Soil	8/24/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/24/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/27/01 13:52

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CP-NW-1082401 Coal Pit,40S&40E			B108390-01				Soil	
Lead	1080525	8/27/01	8/27/01	EPA 7421	0.00500	0.0106	mg/l	
CP-NW-2082401 Coal Pit,60S&20E			B108390-02				Soil	
Lead	1080525	8/27/01	8/27/01	EPA 7421	0.00500	0.00905	mg/l	
CP-NW-3082401 Coal Pit,60S&40E			B108390-03				Soil	
Lead	1080525	8/27/01	8/27/01	EPA 7421	0.00500	0.0107	mg/l	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/24/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/27/01 13:52

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080525	**Date Prepared: 8/27/01**					**Extraction Method: EPA 3010A**				
Blank	**1080525-BLK1**									
Lead	8/27/01			ND	mg/l	0.00500				
LCS	**1080525-BS1**									
Lead	8/27/01	0.0240		0.0240	mg/l	79.0-122	100			
Matrix Spike	**1080525-MS1**		**B108390-01**							
Lead	8/27/01	0.0240	0.0106	0.0368	mg/l	73.0-126	109			
Matrix Spike Dup	**1080525-MSD1**		**B108390-01**							
Lead	8/27/01	0.0240	0.0106	0.0368	mg/l	73.0-126	109	14.0	0	

Great Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/24/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/24/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/27/01 13:52

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Invoice For Analytical Services

Invoice To:
Accounts Payable
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

Remit To:
Great Lakes Analytical
P.O. Box 88485, Dept. A
Chicago, Illinois 60680-1485

Invoice Number
B108390

Invoice Date
08/27/01

Project
Johns Manville, Coal Pit

Project Number/PO Number
N/A

Invoice Due
09/26/01

Client
David Peterson
Johns Manville

Project Manager
Andy Johnson

Terms
NET 30

Federal Tax ID# 94-3115506

Quantity	Analysis/Description	TAT	Matrix	Unit Cost	Extended Cost
Great Lakes Analytical					
3	SPLP Pb, EPA 7421	1	Soil	$135.00	$405.00
				Invoice Total:	**$405.00**

1.5% Monthly Finance Charge assessed after 30 days.
Please include invoice number with remittance.

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: JOHNS MANVILLE
Address: 1871 NORTH PERSHING RD.
WAUKEGAN IL. 60087
Report to: DAVE PETERSON Phone #: (847) 360-4479 Fax #: (847) 360-4558

Bill To: SAME
Address:
State & Program:
Phone #: ( ) Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED: 08/25/01
TEMPERATURE UPON RECEIPT:
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: JOHNS MANVILLE, COAL PIT
Sampler: BK
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	SPLP LEAD	CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 CP-NW-1082401 COAL PIT, 40S + 40E PID: —	08/24/01	1100	Soil							1	1	X			B108390-01
2 CP-NW-2082401 COAL PIT, 60S + 20E PID: —	↓	1125	↓							1	1	X			-02
3 CP-NW-3082401 COAL PIT, 60S + 40E PID: —	↓	1139	↓							1	1	X			-03
4 PID:															
5 PID:															
6 PID:															
7 PID:															
8 PID:															
9 PID:															
10 PID:															

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
08/24/01 1200	8-24 1630		
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE OF

From: Debbie Dibrizzi 847-808-7772 To: David Peterson Date: 8/27/01 Time: 2:32:58 PM

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

August 29, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: Johns Manville, Coal Pit

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on August 28, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

(6) COAL PIT SAMPLING

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Memo

To: Environmental Consulting Firms

From: Deb Lowe, Laboratory Director

Date: 08/17/01

Re: Dry Weight Correction of results for samples submitted under TACO

- In light of the new amendments to TACO, sample results are required to be reported to the state on a **dry weight basis** for soil samples taken after August 15, 2001 (35 Illinois Administrative Code Section 742.225 subsection f, July 26, 2001). TCLP, SPLP and pH analyses are not affected by this provision.
- Dry weight analysis can be performed on samples collected in any unpreserved container. If the project is for volatiles analyses only, a separate aliquot of unpreserved sample must be taken.
- If the samples that you are submitting fall under the Illinois TACO program and you would like the results reported in dry weight, we *require* that you list "dry weight" as an analysis on the chain of custody. There is a charge associated with this test.
- Please be advised that reporting limits will also be changing based on the sample dry weight and that samples with moisture content in excess of 35 percent may result in reporting limits that are above the regulatory limits listed in TACO.
- If you have any questions regarding this matter please contact your Account Manager, Dave Krueger; Project Manager, Andy Johnson; or myself. As always, we appreciate your business and look forward to servicing your laboratory needs.

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/28/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/28/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/29/01 15:18

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CP-01-082801 40S & 60E	B108444-01	Soil	8/28/01
CP-02-082801 60S & 60E	B108444-02	Soil	8/28/01
CP-03-082801 80S & 60E	B108444-03	Soil	8/28/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/28/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/28/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/29/01 15:18

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CP-01-082801 40S & 60E			B108444-01				Soil	
Lead	1080590	8/29/01	8/29/01	EPA 7421	0.00500	ND	mg/l	G1
CP-02-082801 60S & 60E			B108444-02				Soil	
Lead	1080590	8/29/01	8/29/01	EPA 7421	0.00500	**0.0168**	mg/l	G1
CP-03-082801 80S & 60E			B108444-03				Soil	
Lead	1080590	8/29/01	8/29/01	EPA 7421	0.00500	**0.0127**	mg/l	G1

Great Lakes Analytical

Refer to end of report for text of notes and definitions

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/28/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/28/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/29/01 15:18

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080590	**Date Prepared: 8/29/01**				**Extraction Method: EPA 3010A**					
Blank	**1080590-BLK1**									
Lead	8/29/01			**ND**	mg/l	**0.00500**				
LCS	**1080590-BS1**									
Lead	8/29/01	0.0240		0.0292	mg/l	79.0-122	122			
Matrix Spike	**1080590-MS1**		**B108444-01**							
Lead	8/29/01	0.0240	ND	0.0340	mg/l	73.0-126	**142**			
Matrix Spike Dup	**1080590-MSD1**		**B108444-01**							
Lead	8/29/01	0.0240	ND	0.0329	mg/l	73.0-126	**137**	14.0	**3.58**	

Great Lakes Analytical

Refer to end of report for text of notes and definitions

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/28/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/28/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/29/01 15:18

Notes and Definitions

#	Note
GI	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1550 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: JOHNS MANVILLE
Address: 1871 NORTH PERSHING RD.
WAUKEGAN IL 60087
Report to: DAVE PETERSON
Phone #: ( )
Fax #: ( )

Bill To: SAME
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY 24 HRS.
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED: 08/29/01
TEMPERATURE UPON RECEIPT: 21°C
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: JOHNS MANVILLE, COAL PIT
Sampler: BXC (LFR)
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	SPLP LEAD									CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 CP-01-082801 COAL PIT, 40S + 60E PID: —	08/28/01	1300	Soil							1	1	X											B108444-01
2 CP-02-082801 COAL PIT, 60S + 60E PID: —	↓	1310								1	1	X											-02
3 CP-03-082801 COAL PIT, 80S + 60E PID: —	↓	1330								1	1	X											-03
4 PID:																							
5 PID:																							
6 PID:																							
7 PID:																							
8 PID:																							
9 PID:																							
10 PID:																							

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
[signature]	08/28/01 1400	NC.945	15-10			[signature]	8/28/01 4:00 PM
RELINQUISHED	DATE TIME	RECEIVED	DATE TIME	RELINQUISHED	DATE TIME	RECEIVED [signature]	8-29-01 642

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

August 31, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: Johns Manville, Coal Pit

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on August 30, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

60S, 80E
80S, 80E

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/30/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/30/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/31/01 13:14

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CP-01-0830001 Coal Pit 60S&80E	B108490-01	Soil	8/30/01
CP-02-0830001 Coal Pit 80S&80E	B108490-02	Soil	8/30/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/30/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/30/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/31/01 13:14

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CP-01-0830001 Coal Pit 60S&80C			B108490-01				Soil	
Lead	1080639	8/31/01	8/31/01	EPA 7421	0.00500	0.00836	mg/l	
CP-02-0830001 Coal Pit 80S&80E			B108490-02				Soil	
Lead	1080639	8/31/01	8/31/01	EPA 7421	0.00500	0.00677	mg/l	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/30/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/30/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/31/01 13:14

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080639	**Date Prepared: 8/31/01**				**Extraction Method: EPA 3010A TCLP**					
Blank	**1080639-BLK1**									
Lead	8/31/01			ND	mg/l	0.00500				
LCS	**1080639-BS1**									
Lead	8/31/01	0.0240		0.0241	mg/l	79.0-122	100			
Matrix Spike	**1080639-MS1**		**B108490-01**							
Lead	8/31/01	0.0240	0.00836	0.0331	mg/l	73.0-126	103			
Matrix Spike Dup	**1080639-MSD1**		**B108490-01**							
Lead	8/31/01	0.0240	0.00836	0.0346	mg/l	73.0-126	109	14.0	5.66	

Great Lakes Analytical

Refer to end of report for text of notes and definitions.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	8/30/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	8/30/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	8/31/01 13:14

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Invoice For Analytical Services

Invoice To:
Accounts Payable
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

Remit To:
Great Lakes Analytical
P.O. Box 88485, Dept. A
Chicago, Illinois 60680-1485

Invoice Number
B108490

Invoice Date
08/31/01

Project
Johns Manville, Coal Pit

Project Number/PO Number
N/A

Invoice Due
09/30/01

Client
David Peterson
Johns Manville

Project Manager
Andy Johnson

Terms
NET 30

Federal Tax ID# 94-3115506

Quantity	Analysis/Description	TAT	Matrix	Unit Cost	Extended Cost
Great Lakes Analytical					
2	SPLP Pb, EPA 7421	1	Soil	$135.00	$270.00

Invoice Total: $270.00

1.5% Monthly Finance Charge assessed after 30 days.
Please include invoice number with remittance.

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

CHAIN OF CUSTODY REPORT

Client: JOHNS MANVILLE
Address: 1871 N. PERSHING RD.
WAUKEGAN IL. 60087
Report to: DAVE JOHNSON
Phone #: (847) -360-4438
Fax #: 847-360-4558

Bill To: SAME
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED: 08/31/01
TEMPERATURE UPON RECEIPT: ON ICE
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: JOHNS MANVILLE, COAL PIT
Sampler: BEC (GRA)
PO/Quote #: —

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 CP-01-083001 COAL PIT, 60S & 80E PID: —	08/30/01	1339	soil							1	1			B108490-01
2 CP-02-083001 COAL PIT, 80S & 80E PID: —	↓	1345	↓							1	1			-02
3 PID:														
4 PID:														
5 PID:														
6 PID:														
7 PID:														
8 PID:														
9 PID:														
10 PID:														

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
08/30/01 1500			8-30-01 1809
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

September 5, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: Johns Manville, Coal Pit

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on September 4, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

(8) COAL PIT SAMPLING

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/4/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/4/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/5/01 14:51

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CP-090401 Coal Pit, 60S&85E	B109018-01	Soil	9/4/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/4/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/4/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/5/01 14:51

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CP-090401 Coal Pit, 60S&85E			**B109018-01**				**Soil**	
Lead	1090039	9/5/01	9/5/01	EPA 7421	0.00500	ND	mg/l	G15

Great Lakes Analytical

Refer to end of report for text of notes and definitions

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/4/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/4/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/5/01 14:51

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090039	**Date Prepared: 9/5/01**				**Extraction Method: EPA 3010A**					
Blank	**1090039-BLK1**									
Lead	9/5/01			**ND**	mg/l	**0.00500**				
LCS	**1090039-BS1**									
Lead	9/5/01	0.0240		0.0237	mg/l	79.0-122	98.8			
Matrix Spike	**1090039-MS1**		**B109018-01**							
Lead	9/5/01	0.0240	ND	0.0232	mg/l	73.0-126	**96.7**			
Matrix Spike Dup	**1090039-MSD1**		**B109018-01**							
ad	9/5/01	0.0240	ND	0.0196	mg/l	73.0-126	**81.7**	14.0	**16.8**	

Great Lakes Analytical

**Refer to end of report for text of notes and definition*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/4/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/4/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/5/01 14:51

Notes and Definitions

#	Note
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Oak (WI 53154
(4 70-9460
FAX (414) 570-9461

CHAIN OF CUSTO REPORT

Client: JOHNS MANVILLE
Address: 1871 N. PERSHING RD.
WAUKEGAN IL. 60087
Report to: DAVE PETERSON
Phone #: (847) 360-4438
Fax #: (847) 360-4558

Bill To: SAME
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY 24 HRS
☒ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED: 09/05/01
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: JOHNS MANVILLE, COAL PIT
Sampler: BXC (LFR)
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	SPLP LEAD									CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 CP-090401 COAL PIT, 60S & 85E PID: —	09/04/01	1330	soil							1	1	X											B109018-01
2 PID:																							
3 PID:																							
4 PID:																							
5 PID:																							
6 PID:																							
7 PID:																							
8 PID:																							
9 PID:																							
10 PID:																							

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	09/04/01 1400	[signature]	9-4 1625	[signature]	9-4 1715	[signature]	9/4/01 1715
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	9-5-01 635

COMMENTS:

PAGE OF

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

September 10, 2001

Wendy Teskey
Levine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123

RE: Johns Manville - Bldg. H

Dear Wendy Teskey

Enclosed are the results of analyses for sample(s) received by the laboratory on August 29, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
JM-H-V-32-3`-5`	B108473-01	Waste (S)	8/28/01
JM-H-V-13-3`-4`	B108473-02	Waste (S)	8/28/01
JM-H-V-9-3`-4`	B108473-03	Waste (S)	8/28/01

Great Lakes Analytical

Andy Johnson, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody documen
This analytical report must be reproduced in its entiret

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
JM-H-V-32-3`-5`			**B108473-01**				**Waste (S)**	
Arsenic	1090071	9/6/01	9/6/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	**127**	"	
Cadmium	"	"	"	EPA 6010B	0.500	ND	"	
Chromium	"	"	"	EPA 6010B	0.500	**13.0**	"	
Lead	"	"	"	EPA 6010B	1.00	**76.5**	"	G1,G1
Selenium	"	"	"	EPA 6010B	2.50	ND	"	
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1090093	9/7/01	9/8/01	EPA 7471A	0.0400	**0.202**	"	
JM-H-V-13-3`-4`			**B108473-02**				**Waste (S)**	
Arsenic	1090071	9/6/01	9/6/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	ND	"	
mium	"	"	"	EPA 6010B	0.500	ND	"	
romium	"	"	"	EPA 6010B	0.500	ND	"	
Lead	"	"	"	EPA 6010B	1.00	ND	"	G1,G1
Selenium	"	"	"	EPA 6010B	2.50	ND	"	
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1090093	9/7/01	9/8/01	EPA 7471A	0.0400	**0.328**	"	
JM-H-V-9-3`-4`			**B108473-03**				**Waste (S)**	
Arsenic	1090071	9/6/01	9/6/01	EPA 6010B	2.50	ND	mg/kg	
Barium	"	"	"	EPA 6010B	25.0	ND	"	
Cadmium	"	"	"	EPA 6010B	0.500	ND	"	
Chromium	"	"	"	EPA 6010B	0.500	**0.847**	"	
Lead	"	"	"	EPA 6010B	1.00	**144**	"	G1,G1
Selenium	"	"	"	EPA 6010B	2.50	ND	"	
Silver	"	"	"	EPA 6010B	2.50	ND	"	
Mercury	1090093	9/7/01	9/8/01	EPA 7471A	0.0400	**0.141**	"	

at Lakes Analytical

**Refer to end of report for text of notes and definition*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-32-3'-5'			**B108473-01**				**Waste (S)**	**G12,G4**
Acetone	1090088	9/6/01	9/7/01		1250	ND	ug/kg	
Benzene	"	"	"		250	ND	"	
Bromodichloromethane	"	"	"		250	ND	"	
Bromoform	"	"	"		250	ND	"	
Bromomethane	"	"	"		250	ND	"	
2-Butanone	"	"	"		500	ND	"	
Carbon disulfide	"	"	"		250	ND	"	
Carbon tetrachloride	"	"	"		250	ND	"	
Chlorobenzene	"	"	"		250	ND	"	
Chlorodibromomethane	"	"	"		250	ND	"	
Chloroethane	"	"	"		250	ND	"	
Chloroform	"	"	"		250	ND	"	
romethane	"	"	"		250	ND	"	
,,-Dichloroethane	"	"	"		250	ND	"	
1,2-Dichloroethane	"	"	"		250	ND	"	
1,1-Dichloroethene	"	"	"		250	ND	"	
cis-1,2-Dichloroethene	"	"	"		250	ND	"	
trans-1,2-Dichloroethene	"	"	"		250	ND	"	
1,2-Dichloropropane	"	"	"		250	ND	"	
cis-1,3-Dichloropropene	"	"	"		250	ND	"	
trans-1,3-Dichloropropene	"	"	"		250	ND	"	
Ethylbenzene	"	"	"		250	ND	"	
2-Hexanone	"	"	"		500	ND	"	
Methylene chloride	"	"	"		250	**558**	"	A
4-Methyl-2-pentanone	"	"	"		500	ND	"	
Styrene	"	"	"		250	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		250	ND	"	
Tetrachloroethene	"	"	"		250	ND	"	
Toluene	"	"	"		250	ND	"	
1,1,1-Trichloroethane	"	"	"		250	ND	"	
1,1,2-Trichloroethane	"	"	"		250	ND	"	
Trichloroethene	"	"	"		250	**257**	"	
Trichlorofluoromethane	"	"	"		250	ND	"	
Vinyl acetate	"	"	"		500	ND	"	
Vinyl chloride	"	"	"		250	ND	"	
Total Xylenes	"	"	"		250	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*92.6*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*108*	"	

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Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-32-3'-5' (continued)			**B108473-01**				**Waste (S)**	**G12,G4**
Surrogate: Toluene-d8	*1090088*	*9/6/01*	*9/7/01*	*82.0-121*		*97.2*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*96.4*	*"*	

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Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-13-3`-4`			**B108473-02**				**Waste (S)**	**G12,G-**
Acetone	1090088	9/6/01	9/7/01		1250	ND	ug/kg	
Benzene	"	"	"		250	ND	"	
Bromodichloromethane	"	"	"		250	ND	"	
Bromoform	"	"	"		250	ND	"	
Bromomethane	"	"	"		250	ND	"	
2-Butanone	"	"	"		500	ND	"	
Carbon disulfide	"	"	"		250	ND	"	
Carbon tetrachloride	"	"	"		250	ND	"	
Chlorobenzene	"	"	"		250	ND	"	
Chlorodibromomethane	"	"	"		250	ND	"	
Chloroethane	"	"	"		250	ND	"	
Chloroform	"	"	"		250	ND	"	
romethane	"	"	"		250	ND	"	
-Dichloroethane	"	"	"		250	ND	"	
1,2-Dichloroethane	"	"	"		250	ND	"	
1,1-Dichloroethene	"	"	"		250	ND	"	
cis-1,2-Dichloroethene	"	"	"		250	ND	"	
trans-1,2-Dichloroethene	"	"	"		250	ND	"	
1,2-Dichloropropane	"	"	"		250	ND	"	
cis-1,3-Dichloropropene	"	"	"		250	ND	"	
trans-1,3-Dichloropropene	"	"	"		250	ND	"	
Ethylbenzene	"	"	"		250	ND	"	
2-Hexanone	"	"	"		500	ND	"	
Methylene chloride	"	"	"		250	ND	"	
4-Methyl-2-pentanone	"	"	"		500	ND	"	
Styrene	"	"	"		250	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		250	ND	"	
Tetrachloroethene	"	"	"		250	ND	"	
Toluene	"	"	"		250	ND	"	
1,1,1-Trichloroethane	"	"	"		250	ND	"	
1,1,2-Trichloroethane	"	"	"		250	ND	"	
Trichloroethene	"	"	"		*250*	***258***	"	
Trichlorofluoromethane	"	"	"		250	ND	"	
Vinyl acetate	"	"	"		500	ND	"	
Vinyl chloride	"	"	"		250	ND	"	
Total Xylenes	"	"	"		250	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*78.8*	*%*	*O4*
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*106*	"	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-13-3`-4` (continued)			**B108473-02**				**Waste (S)**	**G12,G4**
Surrogate: Toluene-d8	*1090088*	*9/6/01*	*9/7/01*	*82.0-121*		*96.9*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*97.1*	*"*	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-9-3`-4`			**B108473-03**				**Waste (S)**	**G12,G4**
Acetone	1090088	9/6/01	9/7/01		1250	ND	ug/kg	
Benzene	"	"	"		250	ND	"	
Bromodichloromethane	"	"	"		250	ND	"	
Bromoform	"	"	"		250	ND	"	
Bromomethane	"	"	"		250	ND	"	
2-Butanone	"	"	"		500	ND	"	
Carbon disulfide	"	"	"		250	ND	"	
Carbon tetrachloride	"	"	"		250	ND	"	
Chlorobenzene	"	"	"		250	ND	"	
Chlorodibromomethane	"	"	"		250	ND	"	
Chloroethane	"	"	"		250	ND	"	
Chloroform	"	"	"		250	ND	"	
romethane	"	"	"		250	ND	"	
,1-Dichloroethane	"	"	"		250	ND	"	
1,2-Dichloroethane	"	"	"		250	ND	"	
1,1-Dichloroethene	"	"	"		250	ND	"	
cis-1,2-Dichloroethene	"	"	"		250	ND	"	
trans-1,2-Dichloroethene	"	"	"		250	ND	"	
1,2-Dichloropropane	"	"	"		250	ND	"	
cis-1,3-Dichloropropene	"	"	"		250	ND	"	
trans-1,3-Dichloropropene	"	"	"		250	ND	"	
Ethylbenzene	"	"	"		250	ND	"	
2-Hexanone	"	"	"		500	ND	"	
Methylene chloride	"	"	"		250	ND	"	
4-Methyl-2-pentanone	"	"	"		500	ND	"	
Styrene	"	"	"		250	**254**	"	
1,1,2,2-Tetrachloroethane	"	"	"		250	ND	"	
Tetrachloroethene	"	"	"		250	ND	"	
Toluene	"	"	"		250	ND	"	
1,1,1-Trichloroethane	"	"	"		250	ND	"	
1,1,2-Trichloroethane	"	"	"		250	ND	"	
Trichloroethene	"	"	"		250	**326**	"	
Trichlorofluoromethane	"	"	"		250	ND	"	
Vinyl acetate	"	"	"		500	ND	"	
Vinyl chloride	"	"	"		250	ND	"	
Total Xylenes	"	"	"		250	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	*81.2-134*		*84.6*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50.8-145*		*108*	"	

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630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-9-3`-4` (continued)			**B108473-03**				**Waste (S)**	**G12,G4**
Surrogate: Toluene-d8	*1090088*	*9/6/01*	*9/7/01*	*82.0-121*		*96.6*	*%*	
Surrogate: 4-Bromofluorobenzene	*"*	*"*	*"*	*76.8-113*		*95.2*	*"*	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-32-3`-5`			**B108473-01**				**Waste (S)**	**G1,O2**
Acenaphthene	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		100	ND	"	
Aniline	"	"	"		100	ND	"	
Anthracene	"	"	"		100	ND	"	
Benzoic acid	"	"	"		500	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		58.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Benzyl alcohol	"	"	"		100	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		100	ND	"	
2-chloroethyl)ether	"	"	"		100	ND	"	
...(2-chloroisopropyl)ether	"	"	"		100	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		100	ND	"	
Butyl benzyl phthalate	"	"	"		100	ND	"	
4-Chloroaniline	"	"	"		100	ND	"	
4-Chloro-3-methylphenol	"	"	"		100	ND	"	
2-Chloronaphthalene	"	"	"		100	ND	"	
2-Chlorophenol	"	"	"		100	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		58.0	ND	"	
Dibenzofuran	"	"	"		100	ND	"	
1,2-Dichlorobenzene	"	"	"		100	ND	"	
1,3-Dichlorobenzene	"	"	"		100	ND	"	
1,4-Dichlorobenzene	"	"	"		100	ND	"	
3,3'-Dichlorobenzidine	"	"	"		500	ND	"	
2,4-Dichlorophenol	"	"	"		100	ND	"	
Diethyl phthalate	"	"	"		100	ND	"	
2,4-Dimethylphenol	"	"	"		100	ND	"	
Dimethyl phthalate	"	"	"		100	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		500	ND	"	
2,4-Dinitrophenol	"	"	"		500	ND	"	
2,4-Dinitrotoluene	"	"	"		100	ND	"	
2,6-Dinitrotoluene	"	"	"		100	ND	"	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-32-3'-5' (continued)			**B108473-01**				**Waste (S)**	**G1,O2**
Di-n-octyl phthalate	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
Hexachlorobenzene	"	"	"		100	ND	"	
Hexachlorobutadiene	"	"	"		100	ND	"	
Hexachlorocyclopentadiene	"	"	"		100	ND	"	
Hexachloroethane	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Isophorone	"	"	"		100	ND	"	
2-Methylnaphthalene	"	"	"		100	ND	"	
o-Cresol	"	"	"		100	ND	"	
m,p-Cresols	"	"	"		100	ND	"	
hthalene	"	"	"		100	ND	"	
itroaniline	"	"	"		500	ND	"	
3-Nitroaniline	"	"	"		500	ND	"	
4-Nitroaniline	"	"	"		500	ND	"	
Nitrobenzene	"	"	"		100	ND	"	
2-Nitrophenol	"	"	"		100	ND	"	
4-Nitrophenol	"	"	"		500	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		100	ND	"	
N-Nitrosodiphenylamine	"	"	"		100	ND	"	
Pentachlorophenol	"	"	"		500	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Phenol	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
1,2,4-Trichlorobenzene	"	"	"		100	ND	"	
2,4,5-Trichlorophenol	"	"	"		500	ND	"	
2,4,6-Trichlorophenol	"	"	"		100	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*10.0-109*		*65.3*	%	
Surrogate: Phenol-d6	"	"	"	*10.0-115*		*65.0*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*10.0-114*		*67.5*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*10.0-106*		*75.9*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*19.3-88.7*		*67.1*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*10.0-126*		*92.2*	"	

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Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-13-3`-4`			**B108473-02**				**Waste (S)**	**G1,O2**
Acenaphthene	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		100	ND	"	
Aniline	"	"	"		100	ND	"	
Anthracene	"	"	"		100	ND	"	
Benzoic acid	"	"	"		500	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		58.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Benzyl alcohol	"	"	"		100	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		100	ND	"	
´2-chloroethyl)ether	"	"	"		100	ND	"	
,(2-chloroisopropyl)ether	"	"	"		100	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		100	ND	"	
Butyl benzyl phthalate	"	"	"		100	ND	"	
4-Chloroaniline	"	"	"		100	ND	"	
4-Chloro-3-methylphenol	"	"	"		100	ND	"	
2-Chloronaphthalene	"	"	"		100	ND	"	
2-Chlorophenol	"	"	"		100	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		58.0	ND	"	
Dibenzofuran	"	"	"		100	ND	"	
1,2-Dichlorobenzene	"	"	"		100	ND	"	
1,3-Dichlorobenzene	"	"	"		100	ND	"	
1,4-Dichlorobenzene	"	"	"		100	ND	"	
3,3´-Dichlorobenzidine	"	"	"		500	ND	"	
2,4-Dichlorophenol	"	"	"		100	ND	"	
Diethyl phthalate	"	"	"		100	ND	"	
2,4-Dimethylphenol	"	"	"		100	ND	"	
Dimethyl phthalate	"	"	"		100	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		500	ND	"	
2,4-Dinitrophenol	"	"	"		500	ND	"	
2,4-Dinitrotoluene	"	"	"		100	ND	"	
2,6-Dinitrotoluene	"	"	"		100	ND	"	

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Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-13-3`-4` (continued)			**B108473-02**				**Waste (S)**	**G1,O2**
Di-n-octyl phthalate	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
Hexachlorobenzene	"	"	"		100	ND	"	
Hexachlorobutadiene	"	"	"		100	ND	"	
Hexachlorocyclopentadiene	"	"	"		100	ND	"	
Hexachloroethane	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Isophorone	"	"	"		100	ND	"	
2-Methylnaphthalene	"	"	"		100	ND	"	
o-Cresol	"	"	"		100	ND	"	
m p-Cresols	"	"	"		100	ND	"	
hthalene	"	"	"		100	ND	"	
Nitroaniline	"	"	"		500	ND	"	
3-Nitroaniline	"	"	"		500	ND	"	
4-Nitroaniline	"	"	"		500	ND	"	
Nitrobenzene	"	"	"		100	ND	"	
2-Nitrophenol	"	"	"		100	ND	"	
4-Nitrophenol	"	"	"		500	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		100	ND	"	
N-Nitrosodiphenylamine	"	"	"		100	ND	"	
Pentachlorophenol	"	"	"		500	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Phenol	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
1,2,4-Trichlorobenzene	"	"	"		100	ND	"	
2,4,5-Trichlorophenol	"	"	"		500	ND	"	
2,4,6-Trichlorophenol	"	"	"		100	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*10.0-109*		*72.1*	*%*	
Surrogate: Phenol-d6	"	"	"	*10.0-115*		*71.5*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*10.0-114*		*74.6*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*10.0-106*		*80.5*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*19.3-88.7*		*74.8*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*10.0-126*		*95.9*	"	

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Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-9-3`-4`			**B108473-03**				**Waste (S)**	**G1,O2**
Acenaphthene	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Acenaphthylene	"	"	"		100	ND	"	
Aniline	"	"	"		100	ND	"	
Anthracene	"	"	"		100	ND	"	
Benzoic acid	"	"	"		500	ND	"	
Benz (a) anthracene	"	"	"		100	ND	"	
Benzo (a) pyrene	"	"	"		58.0	ND	"	
Benzo (b) fluoranthene	"	"	"		100	ND	"	
Benzo (ghi) perylene	"	"	"		100	ND	"	
Benzo (k) fluoranthene	"	"	"		100	ND	"	
Benzyl alcohol	"	"	"		100	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		100	ND	"	
2-chloroethyl)ether	"	"	"		100	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		100	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		100	ND	"	
Butyl benzyl phthalate	"	"	"		100	ND	"	
4-Chloroaniline	"	"	"		100	ND	"	
4-Chloro-3-methylphenol	"	"	"		100	ND	"	
2-Chloronaphthalene	"	"	"		100	ND	"	
2-Chlorophenol	"	"	"		100	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		100	ND	"	
Chrysene	"	"	"		100	ND	"	
Dibenz (a,h) anthracene	"	"	"		58.0	ND	"	
Dibenzofuran	"	"	"		100	ND	"	
1,2-Dichlorobenzene	"	"	"		100	ND	"	
1,3-Dichlorobenzene	"	"	"		100	ND	"	
1,4-Dichlorobenzene	"	"	"		100	ND	"	
3,3'-Dichlorobenzidine	"	"	"		500	ND	"	
2,4-Dichlorophenol	"	"	"		100	ND	"	
Diethyl phthalate	"	"	"		100	ND	"	
2,4-Dimethylphenol	"	"	"		100	ND	"	
Dimethyl phthalate	"	"	"		100	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		500	ND	"	
2,4-Dinitrophenol	"	"	"		500	ND	"	
2,4-Dinitrotoluene	"	"	"		100	ND	"	
2,6-Dinitrotoluene	"	"	"		100	ND	"	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
JM-H-V-9-3`-4` (continued)			**B108473-03**				**Waste (S)**	**G1,O2**
Di-n-octyl phthalate	1090081	9/6/01	9/7/01		100	ND	ug/kg	
Fluoranthene	"	"	"		100	ND	"	
Fluorene	"	"	"		100	ND	"	
Hexachlorobenzene	"	"	"		100	ND	"	
Hexachlorobutadiene	"	"	"		100	ND	"	
Hexachlorocyclopentadiene	"	"	"		100	ND	"	
Hexachloroethane	"	"	"		100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		100	ND	"	
Isophorone	"	"	"		100	ND	"	
2-Methylnaphthalene	"	"	"		100	ND	"	
o-Cresol	"	"	"		100	ND	"	
·n-Cresols	"	"	"		100	ND	"	
·hthalene	"	"	"		100	ND	"	
2-Nitroaniline	"	"	"		500	ND	"	
3-Nitroaniline	"	"	"		500	ND	"	
4-Nitroaniline	"	"	"		500	ND	"	
Nitrobenzene	"	"	"		100	ND	"	
2-Nitrophenol	"	"	"		100	ND	"	
4-Nitrophenol	"	"	"		500	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		100	ND	"	
N-Nitrosodiphenylamine	"	"	"		100	ND	"	
Pentachlorophenol	"	"	"		500	ND	"	
Phenanthrene	"	"	"		100	ND	"	
Phenol	"	"	"		100	ND	"	
Pyrene	"	"	"		100	ND	"	
1,2,4-Trichlorobenzene	"	"	"		100	ND	"	
2,4,5-Trichlorophenol	"	"	"		500	ND	"	
2,4,6-Trichlorophenol	"	"	"		100	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*10.0-109*		*NR*	*%*	*O4*
Surrogate: Phenol-d6	"	"	"	*10.0-115*		*5.73*	"	*O4*
Surrogate: Nitrobenzene-d5	"	"	"	*10.0-114*		*69.2*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*10.0-106*		*74.0*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*19.3-88.7*		*NR*	"	*O4*
Surrogate: p-Terphenyl-d14	"	"	"	*10.0-126*		*93.5*	"	

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Dry Weight Determination
Great Lakes Analytical

Sample Name	Lab ID	Matrix	Result	Units
JM-H-V-32-3`-5`	B108473-01	Waste (S)	59.3	%
JM-H-V-13-3`-4`	B108473-02	Waste (S)	41.7	%
JM-H-V-9-3`-4`	B108473-03	Waste (S)	45.8	%

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630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090071	**Date Prepared: 9/6/01**				**Extraction Method: EPA 3050B**					
Blank	**1090071-BLK1**									
Arsenic	9/6/01			**ND**	mg/kg	**2.50**				
Barium	"			**ND**	"	**25.0**				
Cadmium	"			**ND**	"	**0.500**				
Chromium	"			**ND**	"	**0.500**				
Lead	"			**ND**	"	**1.00**				
Selenium	"			**ND**	"	**2.50**				
Silver	"			**ND**	"	**2.50**				
LCS	**1090071-BS1**									
Arsenic	9/6/01	106		108	mg/kg	81.1-121	102			
Barium	"	200		201	"	72.9-121	101			
[illegible]nium	"	200		196	"	74.3-118	98.0			
Chromium	"	200		198	"	72.2-121	99.0			
Lead	"	201		200	"	72.2-121	99.5			
Selenium	"	56.0		53.7	"	73.1-120	95.9			
Silver	"	200		195	"	10.0-155	97.5			
Matrix Spike	**1090071-MS1**		**B108473-01**							
Arsenic	9/6/01	105	ND	78.6	mg/kg	53.1-117	**74.9**			
Barium	"	198	127	243	"	51.0-111	**58.6**			
Cadmium	"	198	ND	157	"	52.5-108	**79.3**			
Chromium	"	198	13.0	197	"	43.3-115	**92.9**			
Lead	"	199	76.5	854	"	43.3-115	**NR**			
Selenium	"	55.4	ND	39.7	"	47.3-113	**71.7**			
Silver	"	198	ND	161	"	10.0-117	**81.3**			
Matrix Spike Dup	**1090071-MSD1**		**B108473-01**							
Arsenic	9/6/01	106	ND	85.1	mg/kg	53.1-117	**80.3**	26.7	**6.96**	
Barium	"	200	127	230	"	51.0-111	**51.5**	28.8	**12.9**	
Cadmium	"	200	ND	164	"	52.5-108	**82.0**	24.9	**3.35**	
Chromium	"	200	13.0	180	"	43.3-115	**83.5**	24.1	**10.7**	
Lead	"	201	76.5	286	"	43.3-115	**104**	24.1	**116**	
Selenium	"	56.0	ND	48.2	"	47.3-113	**86.1**	25.3	**18.3**	
Silver	"	200	ND	165	"	10.0-117	**82.5**	40.2	**1.47**	

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630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090093	**Date Prepared: 9/7/01**				**Extraction Method: EPA 7471A**					
Blank	**1090093-BLK1**									
Mercury	9/8/01			**ND**	mg/kg	**0.0400**				
LCS	**1090093-BS1**									
Mercury	9/8/01	0.200		0.191	mg/kg	71.9-126	95.5			
Matrix Spike	**1090093-MS1**		**B108488-01**							
Mercury	9/8/01	0.200	ND	0.194	mg/kg	38.3-154	**97.0**			
Matrix Spike Dup	**1090093-MSD1**		**B108488-01**							
Mercury	9/8/01	0.200	ND	0.198	mg/kg	38.3-154	**99.0**	9.52	**2.04**	

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Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090088	**Date Prepared: 9/6/01**				**Extraction Method: EPA 5035B [P/T]**					
Blank	**1090088-BLK1**									
Acetone	9/8/01			ND	ug/kg	25.0				
Benzene	"			ND	"	5.00				
Bromodichloromethane	"			ND	"	5.00				
Bromoform	"			ND	"	5.00				
Bromomethane	"			ND	"	5.00				
2-Butanone	"			ND	"	10.0				
Carbon disulfide	"			ND	"	5.00				
Carbon tetrachloride	"			ND	"	5.00				
Chlorobenzene	"			ND	"	5.00				
Chlorodibromomethane	"			ND	"	5.00				
Chloroethane	"			ND	"	5.00				
›roform	"			ND	"	5.00				
..ıoromethane	"			ND	"	5.00				
1,1-Dichloroethane	"			ND	"	5.00				
1,2-Dichloroethane	"			ND	"	5.00				
1,1-Dichloroethene	"			ND	"	5.00				
cis-1,2-Dichloroethene	"			ND	"	5.00				
trans-1,2-Dichloroethene	"			ND	"	5.00				
1,2-Dichloropropane	"			ND	"	5.00				
cis-1,3-Dichloropropene	"			ND	"	5.00				
trans-1,3-Dichloropropene	"			ND	"	5.00				
Ethylbenzene	"			ND	"	5.00				
2-Hexanone	"			ND	"	10.0				
Methylene chloride	"			ND	"	5.00				
4-Methyl-2-pentanone	"			ND	"	10.0				
Styrene	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	5.00				
Tetrachloroethene	"			ND	"	5.00				
Toluene	"			ND	"	5.00				
1,1,1-Trichloroethane	"			ND	"	5.00				
1,1,2-Trichloroethane	"			ND	"	5.00				
Trichloroethene	"			ND	"	5.00				
Trichlorofluoromethane	"			ND	"	5.00				
Vinyl acetate	"			ND	"	10.0				
Vinyl chloride	"			ND	"	5.00				
Total Xylenes	"			ND	"	5.00				
Surrogate: Dibromofluoromethane	"	*50.0*		*50.5*	"	*81.2-134*	*101*			

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**1090088-BLK1**									
Surrogate: 1,2-Dichloroethane-d4	*9/8/01*	*50.0*		*61.4*	*ug/kg*	*50.8-145*	*123*			
Surrogate: Toluene-d8	*"*	*50.0*		*50.8*	*"*	*82.0-121*	*102*			
Surrogate: 4-Bromofluorobenzene	*"*	*50.0*		*47.0*	*"*	*76.8-113*	*94.0*			
LCS	**1090088-BS1**									
Acetone	9/8/01	50.0		66.5	ug/kg	10.0-166	133			
Benzene	"	50.0		53.4	"	62.1-138	107			
Bromodichloromethane	"	50.0		55.8	"	64.3-125	112			
Bromoform	"	50.0		57.0	"	47.5-124	114			
Bromomethane	"	50.0		55.0	"	49.2-198	110			
2-Butanone	"	50.0		47.2	"	10.0-214	94.4			
Carbon disulfide	"	50.0		50.1	"	10.0-175	100			
Carbon tetrachloride	"	50.0		53.9	"	51.1-134	108			
Chlorobenzene	"	50.0		53.3	"	63.5-135	107			
Chlorodibromomethane	"	50.0		56.0	"	67.5-121	112			
Chloroethane	"	50.0		70.5	"	10.0-537	141			
Chloroform	"	50.0		54.6	"	69.2-124	109			
Chloromethane	"	50.0		58.3	"	67.4-162	117			
1,1-Dichloroethane	"	50.0		53.4	"	63.0-127	107			
1,2-Dichloroethane	"	50.0		56.5	"	57.5-125	113			
1,1-Dichloroethene	"	50.0		51.9	"	59.9-129	104			
cis-1,2-Dichloroethene	"	50.0		50.5	"	64.4-137	101			
trans-1,2-Dichloroethene	"	50.0		48.2	"	59.0-136	96.4			
1,2-Dichloropropane	"	50.0		55.8	"	66.3-132	112			
cis-1,3-Dichloropropene	"	50.0		53.1	"	67.9-124	106			
trans-1,3-Dichloropropene	"	50.0		62.8	"	63.6-124	126			
Ethylbenzene	"	50.0		52.8	"	60.0-141	106			
2-Hexanone	"	50.0		55.3	"	10.0-175	111			
Methylene chloride	"	50.0		56.0	"	28.4-149	112			
4-Methyl-2-pentanone	"	50.0		57.7	"	10.0-188	115			
Styrene	"	50.0		55.1	"	64.6-136	110			
1,1,2,2-Tetrachloroethane	"	50.0		30.6	"	68.4-137	61.2			
Tetrachloroethene	"	50.0		50.1	"	57.6-142	100			
Toluene	"	50.0		51.5	"	64.1-134	103			
1,1,1-Trichloroethane	"	50.0		53.5	"	60.0-134	107			
1,1,2-Trichloroethane	"	50.0		53.5	"	76.4-125	107			
Trichloroethene	"	50.0		62.7	"	61.8-132	125			
Trichlorofluoromethane	"	50.0		79.7	"	14.6-241	159			

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Volatile Organic Compounds by EPA Method 8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1090088-BS1**									
Vinyl acetate	9/8/01	50.0		77.1	ug/kg	10.0-161	154			
Vinyl chloride	"	50.0		59.1	"	57.9-143	118			
Total Xylenes	"	150		162	"	60.0-141	108			
Surrogate: Dibromofluoromethane	"	*50.0*		*52.0*	"	*81.2-134*	*104*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*58.2*	"	*50.8-145*	*116*			
Surrogate: Toluene-d8	"	*50.0*		*51.4*	"	*82.0-121*	*103*			
Surrogate: 4-Bromofluorobenzene	"	*50.0*		*52.9*	"	*76.8-113*	*106*			
LCS Dup	**1090088-BSD1**									
Acetone	9/8/01	50.0		70.1	ug/kg	10.0-166	140	345	5.13	
Benzene	"	50.0		52.9	"	62.1-138	106	41.4	0.939	
Bromodichloromethane	"	50.0		56.0	"	64.3-125	112	42.0	0	
noform	"	50.0		57.3	"	47.5-124	115	57.4	0.873	
omomethane	"	50.0		64.8	"	49.2-198	130	61.9	16.7	
2-Butanone	"	50.0		47.7	"	10.0-214	95.4	173	1.05	
Carbon disulfide	"	50.0		54.6	"	10.0-175	109	126	8.61	
Carbon tetrachloride	"	50.0		54.7	"	51.1-134	109	43.5	0.922	
Chlorobenzene	"	50.0		52.1	"	63.5-135	104	39.0	2.84	
Chlorodibromomethane	"	50.0		55.3	"	67.5-121	111	41.6	0.897	
Chloroethane	"	50.0		73.5	"	10.0-537	147	90.3	4.17	
Chloroform	"	50.0		54.9	"	69.2-124	110	43.5	0.913	
Chloromethane	"	50.0		68.8	"	67.4-162	138	71.8	16.5	
1,1-Dichloroethane	"	50.0		54.0	"	63.0-127	108	41.8	0.930	
1,2-Dichloroethane	"	50.0		56.9	"	57.5-125	114	68.6	0.881	
1,1-Dichloroethene	"	50.0		57.8	"	59.9-129	116	47.5	10.9	
cis-1,2-Dichloroethene	"	50.0		48.8	"	64.4-137	97.6	39.3	3.42	
trans-1,2-Dichloroethene	"	50.0		50.6	"	59.0-136	101	43.0	4.66	
1,2-Dichloropropane	"	50.0		54.8	"	66.3-132	110	38.1	1.80	
cis-1,3-Dichloropropene	"	50.0		52.5	"	67.9-124	105	41.5	0.948	
trans-1,3-Dichloropropene	"	50.0		62.2	"	63.6-124	124	57.2	1.60	
Ethylbenzene	"	50.0		51.8	"	60.0-141	104	42.7	1.90	
2-Hexanone	"	50.0		54.0	"	10.0-175	108	128	2.74	
Methylene chloride	"	50.0		60.6	"	28.4-149	121	67.4	7.73	
4-Methyl-2-pentanone	"	50.0		55.4	"	10.0-188	111	119	3.54	
Styrene	"	50.0		54.3	"	64.6-136	109	37.2	0.913	
1,1,2,2-Tetrachloroethane	"	50.0		33.2	"	68.4-137	66.4	54.6	8.15	
Tetrachloroethene	"	50.0		49.6	"	57.6-142	99.2	46.3	0.803	
Toluene	"	50.0		50.0	"	64.1-134	100	42.6	2.96	

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Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS Dup (continued)	**1090088-BSD1**									
1,1,1-Trichloroethane	9/8/01	50.0		54.9	ug/kg	60.0-134	110	44.2	2.76	
1,1,2-Trichloroethane	"	50.0		52.9	"	76.4-125	106	53.2	0.939	
Trichloroethene	"	50.0		63.8	"	61.8-132	128	43.5	2.37	
Trichlorofluoromethane	"	50.0		93.6	"	14.6-241	187	115	16.2	
Vinyl acetate	"	50.0		78.0	"	10.0-161	156	92.1	1.29	
Vinyl chloride	"	50.0		69.6	"	57.9-143	139	81.0	16.3	
Total Xylenes	"	150		160	"	60.0-141	107	40.1	0.930	
Surrogate: Dibromofluoromethane	"	50.0		52.0	"	81.2-134	104			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		61.1	"	50.8-145	122			
Surrogate: Toluene-d8	"	50.0		50.6	"	82.0-121	101			
Surrogate: 4-Bromofluorobenzene	"	50.0		52.9	"	76.8-113	106			

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090081	**Date Prepared: 9/6/01**				**Extraction Method: EPA 3550B**					
Blank	**1090081-BLK1**									
Acenaphthene	9/7/01			ND	ug/kg	100				
Acenaphthylene	"			ND	"	100				
Aniline	"			ND	"	100				
Anthracene	"			ND	"	100				
Benzoic acid	"			ND	"	500				
Benz (a) anthracene	"			ND	"	100				
Benzo (a) pyrene	"			ND	"	58.0				
Benzo (b) fluoranthene	"			ND	"	100				
Benzo (ghi) perylene	"			ND	"	100				
Benzo (k) fluoranthene	"			ND	"	100				
Benzyl alcohol	"			ND	"	100				
2-chloroethoxy)methane	"			ND	"	100				
Bis(2-chloroethyl)ether	"			ND	"	100				
Bis(2-chloroisopropyl)ether	"			ND	"	100				
Bis(2-ethylhexyl)phthalate	"			ND	"	330				
4-Bromophenyl phenyl ether	"			ND	"	100				
Butyl benzyl phthalate	"			ND	"	100				
4-Chloroaniline	"			ND	"	100				
4-Chloro-3-methylphenol	"			ND	"	100				
2-Chloronaphthalene	"			ND	"	100				
2-Chlorophenol	"			ND	"	100				
4-Chlorophenyl phenyl ether	"			ND	"	100				
Chrysene	"			ND	"	100				
Dibenz (a,h) anthracene	"			ND	"	58.0				
Dibenzofuran	"			ND	"	100				
1,2-Dichlorobenzene	"			ND	"	100				
1,3-Dichlorobenzene	"			ND	"	100				
1,4-Dichlorobenzene	"			ND	"	100				
3,3'-Dichlorobenzidine	"			ND	"	500				
2,4-Dichlorophenol	"			ND	"	100				
Diethyl phthalate	"			ND	"	100				
2,4-Dimethylphenol	"			ND	"	100				
Dimethyl phthalate	"			ND	"	100				
Di-n-butyl phthalate	"			ND	"	330				
4,6-Dinitro-2-methylphenol	"			ND	"	500				
2,4-Dinitrophenol	"			ND	"	500				
2,4-Dinitrotoluene	"			ND	"	100				

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630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**1090081-BLK1**									
2,6-Dinitrotoluene	9/7/01			ND	ug/kg	100				
Di-n-octyl phthalate	"			ND	"	100				
Fluoranthene	"			ND	"	100				
Fluorene	"			ND	"	100				
Hexachlorobenzene	"			ND	"	100				
Hexachlorobutadiene	"			ND	"	100				
Hexachlorocyclopentadiene	"			ND	"	100				
Hexachloroethane	"			ND	"	100				
Indeno (1,2,3-cd) pyrene	"			ND	"	100				
Isophorone	"			ND	"	100				
2-Methylnaphthalene	"			ND	"	100				
o-Cresol	"			ND	"	100				
Cresols	"			ND	"	100				
Naphthalene	"			ND	"	100				
2-Nitroaniline	"			ND	"	500				
3-Nitroaniline	"			ND	"	500				
4-Nitroaniline	"			ND	"	500				
Nitrobenzene	"			ND	"	100				
2-Nitrophenol	"			ND	"	100				
4-Nitrophenol	"			ND	"	500				
N-Nitrosodi-n-propylamine	"			ND	"	100				
N-Nitrosodiphenylamine	"			ND	"	100				
Pentachlorophenol	"			ND	"	500				
Phenanthrene	"			ND	"	100				
Phenol	"			ND	"	100				
Pyrene	"			ND	"	100				
1,2,4-Trichlorobenzene	"			ND	"	100				
2,4,5-Trichlorophenol	"			ND	"	500				
2,4,6-Trichlorophenol	"			ND	"	100				
Surrogate: 2-Fluorophenol	"	*3270*		*1480*	"	*10.0-109*	*45.3*			
Surrogate: Phenol-d6	"	*3270*		*1500*	"	*10.0-115*	*45.9*			
Surrogate: Nitrobenzene-d5	"	*1640*		*785*	"	*10.0-114*	*47.9*			
Surrogate: 2-Fluorobiphenyl	"	*1640*		*873*	"	*10.0-106*	*53.2*			
Surrogate: 2,4,6-Tribromophenol	"	*3270*		*1250*	"	*19.3-88.7*	*38.2*			
Surrogate: p-Terphenyl-d14	"	*1640*		*1310*	"	*10.0-126*	*79.9*			
LCS	**1090081-BS1**									
Acenaphthene	9/7/01	1650		1160	ug/kg	29.4-110	70.3			

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Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1090081-BS1**									
Acenaphthylene	9/7/01	1650		1100	ug/kg	31.0-110	66.7			
Aniline	"	1650		91.5	"	5.00-110	5.55			
Anthracene	"	1650		1160	"	32.9-110	70.3			
Benzoic acid	"	1650		165	"	5.00-110	10.0			
Benz (a) anthracene	"	1650		1210	"	35.9-110	73.3			
Benzo (a) pyrene	"	1650		1180	"	40.3-110	71.5			
Benzo (b) fluoranthene	"	1650		1290	"	41.9-110	78.2			
Benzo (ghi) perylene	"	1650		1380	"	15.0-110	83.6			
Benzo (k) fluoranthene	"	1650		1290	"	39.6-110	78.2			
Benzyl alcohol	"	1650		1120	"	29.1-110	67.9			
Bis(2-chloroethoxy)methane	"	1650		1110	"	27.8-110	67.3			
Bis(2-chloroethyl)ether	"	1650		1000	"	10.8-110	60.6			
2-chloroisopropyl)ether	"	1650		1130	"	16.5-110	68.5			
Bis(2-ethylhexyl)phthalate	"	1650		1620	"	5.00-131	98.2			
4-Bromophenyl phenyl ether	"	1650		1080	"	32.6-110	65.5			
Butyl benzyl phthalate	"	1650		1670	"	5.00-159	101			
4-Chloroaniline	"	1650		306	"	5.00-110	18.5			
4-Chloro-3-methylphenol	"	1650		1200	"	33.5-110	72.7			
2-Chloronaphthalene	"	1650		1050	"	17.0-110	63.6			
2-Chlorophenol	"	1650		1080	"	30.6-110	65.5			
4-Chlorophenyl phenyl ether	"	1650		1140	"	15.2-110	69.1			
Chrysene	"	1650		1190	"	36.1-110	72.1			
Dibenz (a,h) anthracene	"	1650		1860	"	30.5-110	113			
Dibenzofuran	"	1650		1180	"	15.3-110	71.5			
1,2-Dichlorobenzene	"	1650		956	"	15.6-110	57.9			
1,3-Dichlorobenzene	"	1650		952	"	16.2-110	57.7			
1,4-Dichlorobenzene	"	1650		971	"	16.3-110	58.8			
3,3'-Dichlorobenzidine	"	1650		443	"	5.00-110	26.8			
2,4-Dichlorophenol	"	1650		1100	"	16.9-110	66.7			
Diethyl phthalate	"	1650		1090	"	15.8-110	66.1			
2,4-Dimethylphenol	"	1650		1070	"	16.1-110	64.8			
Dimethyl phthalate	"	1650		1120	"	15.3-110	67.9			
Di-n-butyl phthalate	"	1650		1120	"	32.0-110	67.9			
4,6-Dinitro-2-methylphenol	"	1650		486	"	6.14-110	29.5			
2,4-Dinitrophenol	"	1650		352	"	5.00-110	21.3			
2,4-Dinitrotoluene	"	1650		1070	"	32.1-110	64.8			
2,6-Dinitrotoluene	"	1650		1110	"	34.2-110	67.3			
Di-n-octyl phthalate	"	1650		1460	"	5.00-124	88.5			

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630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1090081-BS1**									
Fluoranthene	9/7/01	1650		1170	ug/kg	15.0-110	70.9			
Fluorene	"	1650		1180	"	30.1-110	71.5			
Hexachlorobenzene	"	1650		1060	"	31.8-110	64.2			
Hexachlorobutadiene	"	1650		982	"	11.1-110	59.5			
Hexachlorocyclopentadiene	"	1650		429	"	7.46-110	26.0			
Hexachloroethane	"	1650		966	"	10.6-110	58.5			
Indeno (1,2,3-cd) pyrene	"	1650		1510	"	11.3-118	91.5			
Isophorone	"	1650		1130	"	28.0-110	68.5			
2-Methylnaphthalene	"	1650		1150	"	31.8-110	69.7			
o-Cresol	"	1650		1230	"	20.3-110	74.5			
m,p-Cresols	"	1650		1110	"	5.00-110	67.3			
Naphthalene	"	1650		1080	"	27.0-110	65.5			
itroaniline	"	1650		1210	"	12.0-110	73.3			
Nitroaniline	"	1650		936	"	5.00-110	56.7			
4-Nitroaniline	"	1650		1160	"	5.00-110	70.3			
Nitrobenzene	"	1650		1050	"	27.3-110	63.6			
2-Nitrophenol	"	1650		1070	"	29.7-110	64.8			
4-Nitrophenol	"	1650		942	"	10.4-110	57.1			
N-Nitrosodi-n-propylamine	"	1650		1100	"	32.4-110	66.7			
N-Nitrosodiphenylamine	"	1650		987	"	31.2-110	59.8			
Pentachlorophenol	"	1650		439	"	5.00-110	26.6			
Phenanthrene	"	1650		1210	"	35.4-110	73.3			
Phenol	"	1650		1110	"	15.8-110	67.3			
Pyrene	"	1650		1660	"	5.00-166	101			
1,2,4-Trichlorobenzene	"	1650		1000	"	14.3-110	60.6			
2,4,5-Trichlorophenol	"	1650		1110	"	14.3-110	67.3			
2,4,6-Trichlorophenol	"	1650		1110	"	30.9-110	67.3			
Surrogate: 2-Fluorophenol	"	*3300*		*2000*	"	*10.0-109*	*60.6*			
Surrogate: Phenol-d6	"	*3300*		*2060*	"	*10.0-115*	*62.4*			
Surrogate: Nitrobenzene-d5	"	*1650*		*1030*	"	*10.0-114*	*62.4*			
Surrogate: 2-Fluorobiphenyl	"	*1650*		*1090*	"	*10.0-106*	*66.1*			
Surrogate: 2,4,6-Tribromophenol	"	*3300*		*1960*	"	*19.3-88.7*	*59.4*			
Surrogate: p-Terphenyl-d14	"	*1650*		*1650*	"	*10.0-126*	*100*			
Matrix Spike	**1090081-MS1**		**B108485-01**							
Acenaphthene	9/7/01	1680	ND	913	ug/kg	5.00-140	**54.3**			
Acenaphthylene	"	1680	ND	844	"	5.00-131	**50.2**			
Aniline	"	1680	ND	498	"	5.00-110	**29.6**			

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Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1090081-MS1**		**B108485-01**							
Anthracene	9/7/01	1680	ND	903	ug/kg	5.00-146	**53.8**			
Benzoic acid	"	1680	ND	155	"	5.00-149	**9.23**			
Benz (a) anthracene	"	1680	324	1350	"	5.00-149	**61.1**			
Benzo (a) pyrene	"	1680	256	1120	"	5.00-134	**51.4**			
Benzo (b) fluoranthene	"	1680	483	1570	"	5.00-127	**64.7**			
Benzo (ghi) perylene	"	1680	279	1780	"	5.00-223	**89.3**			
Benzo (k) fluoranthene	"	1680	159	985	"	5.00-120	**49.2**			
Benzyl alcohol	"	1680	ND	830	"	8.91-110	**49.4**			
Bis(2-chloroethoxy)methane	"	1680	ND	852	"	23.1-110	**50.7**			
Bis(2-chloroethyl)ether	"	1680	ND	794	"	16.6-110	**47.3**			
Bis(2-chloroisopropyl)ether	"	1680	ND	877	"	14.5-110	**52.2**			
Bis(2-ethylhexyl)phthalate	"	1680	ND	1490	"	5.00-153	**88.7**			
romophenyl phenyl ether	"	1680	ND	800	"	5.00-152	**47.6**			
utyl benzyl phthalate	"	1680	ND	1430	"	5.00-216	**85.1**			
4-Chloroaniline	"	1680	ND	605	"	5.00-110	**36.0**			
4-Chloro-3-methylphenol	"	1680	ND	925	"	17.8-110	**55.1**			
2-Chloronaphthalene	"	1680	ND	826	"	5.00-117	**49.2**			
2-Chlorophenol	"	1680	ND	820	"	5.03-128	**48.8**			
4-Chlorophenyl phenyl ether	"	1680	ND	858	"	5.00-110	**51.1**			
Chrysene	"	1680	353	1350	"	5.00-155	**59.3**			
Dibenz (a,h) anthracene	"	1680	ND	1680	"	5.00-164	**100**			
Dibenzofuran	"	1680	ND	899	"	5.00-133	**53.5**			
1,2-Dichlorobenzene	"	1680	ND	756	"	5.00-117	**45.0**			
1,3-Dichlorobenzene	"	1680	ND	749	"	5.00-110	**44.6**			
1,4-Dichlorobenzene	"	1680	ND	762	"	5.00-110	**45.4**			
3,3'-Dichlorobenzidine	"	1680	ND	561	"	5.00-110	**33.4**			
2,4-Dichlorophenol	"	1680	ND	852	"	21.5-110	**50.7**			
Diethyl phthalate	"	1680	ND	807	"	5.00-112	**48.0**			
2,4-Dimethylphenol	"	1680	ND	913	"	5.00-122	**54.3**			
Dimethyl phthalate	"	1680	ND	840	"	14.4-114	**50.0**			
Di-n-butyl phthalate	"	1680	ND	793	"	5.00-117	**47.2**			
4,6-Dinitro-2-methylphenol	"	1680	ND	283	"	5.00-126	**16.8**			
2,4-Dinitrophenol	"	1680	ND	197	"	5.00-140	**11.7**			
2,4-Dinitrotoluene	"	1680	ND	773	"	16.2-110	**46.0**			
2,6-Dinitrotoluene	"	1680	ND	829	"	5.00-135	**49.3**			
Di-n-octyl phthalate	"	1680	ND	1020	"	5.00-170	**60.7**			
Fluoranthene	"	1680	716	1790	"	5.00-110	**63.9**			
Fluorene	"	1680	ND	922	"	5.00-130	**54.9**			

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Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1090081-MS1**		**B108485-01**							
Hexachlorobenzene	9/7/01	1680	ND	769	ug/kg	5.00-117	**45.8**			
Hexachlorobutadiene	"	1680	ND	741	"	5.00-110	**44.1**			
Hexachlorocyclopentadiene	"	1680	ND	294	"	5.00-110	**17.5**			
Hexachloroethane	"	1680	ND	748	"	5.00-110	**44.5**			
Indeno (1,2,3-cd) pyrene	"	1680	258	1710	"	5.00-169	**86.4**			
Isophorone	"	1680	ND	869	"	23.1-110	**51.7**			
2-Methylnaphthalene	"	1680	ND	879	"	5.00-137	**52.3**			
o-Cresol	"	1680	ND	935	"	5.00-128	**55.7**			
m,p-Cresols	"	1680	ND	842	"	5.00-131	**50.1**			
Naphthalene	"	1680	ND	852	"	5.00-126	**50.7**			
2-Nitroaniline	"	1680	ND	927	"	18.1-110	**55.2**			
3-Nitroaniline	"	1680	ND	758	"	5.00-110	**45.1**			
troaniline	"	1680	ND	795	"	15.8-110	**47.3**			
robenzene	"	1680	ND	819	"	14.4-110	**48.8**			
2-Nitrophenol	"	1680	ND	814	"	5.00-120	**48.5**			
4-Nitrophenol	"	1680	ND	681	"	5.00-124	**40.5**			
N-Nitrosodi-n-propylamine	"	1680	ND	843	"	23.2-110	**50.2**			
N-Nitrosodiphenylamine	"	1680	ND	760	"	5.00-127	**45.2**			
Pentachlorophenol	"	1680	ND	417	"	5.00-114	**24.8**			
Phenanthrene	"	1680	445	1450	"	5.00-137	**59.8**			
Phenol	"	1680	ND	861	"	23.7-110	**51.3**			
Pyrene	"	1680	750	2850	"	5.00-402	**125**			
1,2,4-Trichlorobenzene	"	1680	ND	773	"	5.00-110	**46.0**			
2,4,5-Trichlorophenol	"	1680	ND	879	"	11.6-113	**52.3**			
2,4,6-Trichlorophenol	"	1680	ND	858	"	18.8-110	**51.1**			
Surrogate: 2-Fluorophenol	"	*3350*		*1540*	"	*10.0-109*	*46.0*			
Surrogate: Phenol-d6	"	*3350*		*1550*	"	*10.0-115*	*46.3*			
Surrogate: Nitrobenzene-d5	"	*1680*		*819*	"	*10.0-114*	*48.8*			
Surrogate: 2-Fluorobiphenyl	"	*1680*		*818*	"	*10.0-106*	*48.7*			
Surrogate: 2,4,6-Tribromophenol	"	*3350*		*1520*	"	*19.3-88.7*	*45.4*			
Surrogate: p-Terphenyl-d14	"	*1680*		*1330*	"	*10.0-126*	*79.2*			
Matrix Spike Dup	**1090081-MSD1**		**B108485-01**							
Acenaphthene	9/7/01	1620	ND	1210	ug/kg	5.00-140	**74.7**	81.8	**31.6**	
Acenaphthylene	"	1620	ND	1090	"	5.00-131	**67.3**	73.0	**29.1**	
Aniline	"	1620	ND	570	"	5.00-110	**35.2**	116	**17.3**	
Anthracene	"	1620	ND	1310	"	5.00-146	**80.9**	98.1	**40.2**	
Benzoic acid	"	1620	ND	173	"	5.00-149	**10.7**	78.8	**14.8**	

at Lakes Analytical

**Refer to end of report for text of notes and definitions.*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**1090081-MSD1**		**B108485-01**							
Benz (a) anthracene	9/7/01	1620	324	2140	ug/kg	5.00-149	**112**	124	**58.8**	
Benzo (a) pyrene	"	1620	256	1740	"	5.00-134	**91.6**	124	**56.2**	
Benzo (b) fluoranthene	"	1620	483	2040	"	5.00-127	**96.1**	121	**39.1**	
Benzo (ghi) perylene	"	1620	279	2990	"	5.00-223	**167**	121	**60.6**	
Benzo (k) fluoranthene	"	1620	159	1380	"	5.00-120	**75.4**	107	**42.1**	
Benzyl alcohol	"	1620	ND	1030	"	8.91-110	**63.6**	103	**25.1**	
Bis(2-chloroethoxy)methane	"	1620	ND	1050	"	23.1-110	**64.8**	86.0	**24.4**	
Bis(2-chloroethyl)ether	"	1620	ND	943	"	16.6-110	**58.2**	83.4	**20.7**	
Bis(2-chloroisopropyl)ether	"	1620	ND	1050	"	14.5-110	**64.8**	80.8	**21.5**	
Bis(2-ethylhexyl)phthalate	"	1620	ND	2200	"	5.00-153	**136**	115	**42.1**	
4-Bromophenyl phenyl ether	"	1620	ND	1100	"	5.00-152	**67.9**	70.7	**35.2**	
Butyl benzyl phthalate	"	1620	ND	2400	"	5.00-216	**148**	92.3	**54.0**	
Chloroaniline	"	1620	ND	714	"	5.00-110	**44.1**	196	**20.2**	
4-Chloro-3-methylphenol	"	1620	ND	1240	"	17.8-110	**76.5**	100	**32.5**	
2-Chloronaphthalene	"	1620	ND	1040	"	5.00-117	**64.2**	77.7	**26.5**	
2-Chlorophenol	"	1620	ND	999	"	5.03-128	**61.7**	77.4	**23.3**	
4-Chlorophenyl phenyl ether	"	1620	ND	1140	"	5.00-110	**70.4**	73.0	**31.8**	
Chrysene	"	1620	353	1940	"	5.00-155	**98.0**	122	**49.2**	
Dibenz (a,h) anthracene	"	1620	ND	2770	"	5.00-164	**171**	105	**52.4**	
Dibenzofuran	"	1620	ND	1210	"	5.00-133	**74.7**	76.2	**33.1**	
1,2-Dichlorobenzene	"	1620	ND	894	"	5.00-117	**55.2**	84.9	**20.4**	
1,3-Dichlorobenzene	"	1620	ND	885	"	5.00-110	**54.6**	84.0	**20.2**	
1,4-Dichlorobenzene	"	1620	ND	905	"	5.00-110	**55.9**	86.6	**20.7**	
3,3'-Dichlorobenzidine	"	1620	ND	707	"	5.00-110	**43.6**	146	**26.5**	
2,4-Dichlorophenol	"	1620	ND	1090	"	21.5-110	**67.3**	81.0	**28.1**	
Diethyl phthalate	"	1620	ND	1120	"	5.00-112	**69.1**	75.8	**36.0**	
2,4-Dimethylphenol	"	1620	ND	1100	"	5.00-122	**67.9**	145	**22.3**	
Dimethyl phthalate	"	1620	ND	1130	"	14.4-114	**69.8**	77.1	**33.1**	
Di-n-butyl phthalate	"	1620	ND	1120	"	5.00-117	**69.1**	107	**37.7**	
4,6-Dinitro-2-methylphenol	"	1620	ND	370	"	5.00-126	**22.8**	97.4	**30.3**	
2,4-Dinitrophenol	"	1620	ND	202	"	5.00-140	**12.5**	25.6	**6.61**	
2,4-Dinitrotoluene	"	1620	ND	1100	"	16.2-110	**67.9**	85.7	**38.5**	
2,6-Dinitrotoluene	"	1620	ND	1120	"	5.00-135	**69.1**	89.6	**33.4**	
Di-n-octyl phthalate	"	1620	ND	1370	"	5.00-170	**84.6**	76.1	**32.9**	
Fluoranthene	"	1620	716	2680	"	5.00-110	**121**	142	**61.8**	
Fluorene	"	1620	ND	1240	"	5.00-130	**76.5**	79.5	**32.9**	
Hexachlorobenzene	"	1620	ND	1050	"	5.00-117	**64.8**	79.5	**34.4**	
Hexachlorobutadiene	"	1620	ND	907	"	5.00-110	**56.0**	82.0	**23.8**	

Great Lakes Analytical

**Refer to end of report for text of notes and definitions*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**1090081-MSD1**		**B108485-01**							
Hexachlorocyclopentadiene	9/7/01	1620	ND	328	ug/kg	5.00-110	**20.2**	71.2	**14.3**	
Hexachloroethane	"	1620	ND	885	"	5.00-110	**54.6**	90.3	**20.4**	
Indeno (1,2,3-cd) pyrene	"	1620	258	3010	"	5.00-169	**170**	107	**65.2**	
Isophorone	"	1620	ND	1080	"	23.1-110	**66.7**	84.6	**25.3**	
2-Methylnaphthalene	"	1620	ND	1110	"	5.00-137	**68.5**	71.7	**26.8**	
o-Cresol	"	1620	ND	1160	"	5.00-128	**71.6**	86.1	**25.0**	
m,p-Cresols	"	1620	ND	1060	"	5.00-131	**65.4**	92.8	**26.5**	
Naphthalene	"	1620	ND	1060	"	5.00-126	**65.4**	75.6	**25.3**	
2-Nitroaniline	"	1620	ND	1270	"	18.1-110	**78.4**	89.3	**34.7**	
3-Nitroaniline	"	1620	ND	1010	"	5.00-110	**62.3**	111	**32.0**	
4-Nitroaniline	"	1620	ND	1030	"	15.8-110	**63.6**	99.9	**29.4**	
Nitrobenzene	"	1620	ND	1000	"	14.4-110	**61.7**	84.2	**23.3**	
2-Nitrophenol	"	1620	ND	1020	"	5.00-120	**63.0**	85.1	**26.0**	
4-Nitrophenol	"	1620	ND	997	"	5.00-124	**61.5**	55.2	**41.2**	
N-Nitrosodi-n-propylamine	"	1620	ND	1040	"	23.2-110	**64.2**	93.5	**24.5**	
N-Nitrosodiphenylamine	"	1620	ND	1080	"	5.00-127	**66.7**	74.3	**38.4**	
Pentachlorophenol	"	1620	ND	644	"	5.00-114	**39.8**	70.7	**46.4**	
Phenanthrene	"	1620	445	2290	"	5.00-137	**114**	141	**62.4**	
Phenol	"	1620	ND	1060	"	23.7-110	**65.4**	88.0	**24.2**	
Pyrene	"	1620	750	5490	"	5.00-402	**NR**	157	**80.4**	
1,2,4-Trichlorobenzene	"	1620	ND	950	"	5.00-110	**58.6**	76.7	**24.1**	
2,4,5-Trichlorophenol	"	1620	ND	1170	"	11.6-113	**72.2**	79.3	**32.0**	
2,4,6-Trichlorophenol	"	1620	ND	1190	"	18.8-110	**73.5**	88.2	**36.0**	
Surrogate: 2-Fluorophenol	"	*3230*		*1840*	"	*10.0-109*	*57.0*			
Surrogate: Phenol-d6	"	*3230*		*1940*	"	*10.0-115*	*60.1*			
Surrogate: Nitrobenzene-d5	"	*1620*		*1020*	"	*10.0-114*	*63.0*			
Surrogate: 2-Fluorobiphenyl	"	*1620*		*1040*	"	*10.0-106*	*64.2*			
Surrogate: 2,4,6-Tribromophenol	"	*3230*		*2250*	"	*19.3-88.7*	*69.7*			
Surrogate: p-Terphenyl-d14	"	*1620*		*2270*	"	*10.0-126*	*140*			

Great Lakes Analytical

**Refer to end of report for text of notes and definitions*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Levine-Fricke-Recon	Project:	Johns Manville - Bldg. H	Sampled:	8/28/01
630 Tollgate Rd., Suite D	Project Number:	N/A	Received:	8/29/01
Elgin, IL 60123	Project Manager:	Wendy Teskey	Reported:	9/10/01 17:20

Notes and Definitions

#	Note
A	The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
G1	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G4	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
`	One or more internal standard recoveries were below the method specified acceptance criteria.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

at Lakes Analytical

Andy Johnson, Project Manager

LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

(847) 808-7766
FAX (847) 808-7772

(414) 570-9460
FAX (414) 570-9461

Client: LFR Levine Fricke
Address: 630 Tollgate Rd. Suite D
Elgin, IL 60123
Report to: Wendy Teskey
Phone #: (847) 695-8855
Fax #: (847) 695-7799

Bill To: Johns Manville
Address: 1871 North Pershing Rd
Waukegan, IL 60087
State & Program:
Phone #: (847)-360-4402
Fax #: (847)-360-4558

TAT: STD 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☒ NO - TAT is not critical
DATE RESULTS NEEDED: 9/5/01
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: Johns Manville - Bldg. H
Sampler: Wendy Teskey
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC 8260	SVOC 8270	Total PCRA Metals	Dry Weight	ANALYSIS TYPE						CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	JM-H-V-32-3'-5' PID:	8/28/01	1810	soil							2	2	X	X	X	X									B108473-01
2	JM-H-V-13-3'-4' PID:	↓	1320	↓	1						1	2	X	X	X	X									-02
3	JM-H-V-9-3'-4' PID:	↓	1445	↓							2	2	X	X	X	X									-03
4	PID:																								-04
5	PID:																								
6	PID:																								
7	PID:																								
8	PID:																								
9	PID:																								
10	PID:																								

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
Wendy E Teskey 8/28/01	[signature] 8-29 1145	[signature] 8-29 1300	
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS: Volatile soil samples preserved in accordance with EPA Method 5030A ~~82~~ EY

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

September 13, 2001

David Peterson
Johns Manville
1871 N. Pershing Rd.
Waukegan, IL 60087

RE: Johns Manville, Coal Pit

Dear David Peterson

Enclosed are the results of analyses for sample(s) received by the laboratory on September 12, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson
Project Manager

(9) COAL PIT SAMPLING
10' N. OF CENTER OF S. WALL

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/12/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/12/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/13/01 15:41

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
CP-091201 Coal Pit Center, E&W	B109137-01	Soil	9/12/01

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document
This analytical report must be reproduced in its entirety

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/12/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/12/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/13/01 15:41

SPLP Metals by EPA 1312/6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CP-091201 Coal Pit Center, E&W			**B109137-01**				**Soil**	
Lead	1090205	9/13/01	9/13/01	EPA 7421	0.00500	ND	mg/l	

Great Lakes Analytical

**Refer to end of report for text of notes and definition*

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/12/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/12/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/13/01 15:41

SPLP Metals by EPA 1312/6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1090205	**Date Prepared: 9/13/01**				**Extraction Method: EPA 3010A TCLP**					
Blank	**1090205-BLK1**									
Lead	9/13/01			ND	mg/l	0.00500				
LCS	**1090205-BS1**									
Lead	9/13/01	0.0240		0.0233	mg/l	79.0-122	97.1			
Matrix Spike	**1090205-MS1**		**B109137-01**							
Lead	9/13/01	0.0240	ND	0.0259	mg/l	73.0-126	108			
Matrix Spike Dup	**1090205-MSD1**		**B109137-01**							
Lead	9/13/01	0.0240	ND	0.0266	mg/l	73.0-126	111	14.0	2.74	

Great Lakes Analytical

Refer to end of report for text of notes and definitions

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Johns Manville	Project:	Johns Manville, Coal Pit	Sampled:	9/12/01
1871 N. Pershing Rd.	Project Number:	N/A	Received:	9/12/01
Waukegan, IL 60087	Project Manager:	David Peterson	Reported:	9/13/01 15:41

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical

Andy Johnson, Project Manager

AUG 26 '02 11:50 FROM 8473604558 TO 88476957799- PAGE.020

GREAT LAKES ANALYTICAL

CHAIN OF CUSTO[illegible] REPORT

1580 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

14[illegible] Ryan Road
Oak [illegible]k, WI 53154
(4[illegible]) 570-9460
FAX (414) 570-9461

SAME

Client: JOHNS MANVILLE	Bill To:	TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY 24 HRS
Address: 1871 N. PERSHING RD	Address:	☒ YES - TAT is critical ☐ NO - TAT is not critical — DATE RESULTS NEEDED: 09/13/01
WAUKEGAN IL. 60087		TEMPERATURE UPON RECEIPT: Onice
Report to: DAVE PETERSON — Phone #: (847) 360 4438 Fax #: (847) 360-4558	State & Program: — Phone #: ( ) Fax #: ( )	Deliverable Package Needed: ☐ STD ☐ Other — Air Bill No.
Project: JM		
Sampler: BXC		
PO/Quote #:		

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	SPLP LEAD	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED-BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	LABORATORY ID NUMBER
1 CP-091201 COAL PIT, CENTER, E&W, PID: 10' NORTH	09/12/01	1406	Soil							1	1	Y				B109137-01
2 PID:																
3 PID:																
4 PID:																
5 PID:																
6 PID:																
7 PID:																
8 PID:																
9 PID:																
10 PID:																

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
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COMMENTS: * TAT = ASAP!

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December 7, 2001

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: Johns Manville
First Environmental File ID: 47421-38
Date Received: November 29, 2001

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report.

Results for the soil samples have been expressed on a dry weight basis per method protocol.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47421	Date Taken:	11/27/01
Sample Description:	Pit 2-01-1	Time Taken:	07:50
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	83.89	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47422	Date Taken:	11/27/01
Sample Description:	Pit 2-01-2	Time Taken:	08:10
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	93.51	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	22	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	50	ug/kg	
Benzo[k]fluoranthene	20	ug/kg	
Benzo[a]pyrene	41	ug/kg	
Indeno[1,2,3-cd]pyrene	46	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47423	Date Taken:	11/27/01
Sample Description:	Pit 2-01-3	Time Taken:	08:30
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	90.11	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	93	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	138	ug/kg	
Pyrene	129	ug/kg	
Benzo[a]anthracene	79	ug/kg	
Chrysene	81	ug/kg	
Benzo[b]fluoranthene	92	ug/kg	
Benzo[k]fluoranthene	74	ug/kg	
Benzo[a]pyrene	100	ug/kg	
Indeno[1,2,3-cd]pyrene	80	ug/kg	
Dibenz[a,h]anthracene	20	ug/kg	
Benzo[g,h,i]perylene	74	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47424	Date Taken:	11/27/01
Sample Description:	Pit 2-01-4	Time Taken:	08:50
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	92.41	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	195	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	370	ug/kg	
Pyrene	350	ug/kg	
Benzo[a]anthracene	156	ug/kg	
Chrysene	191	ug/kg	
Benzo[b]fluoranthene	226	ug/kg	
Benzo[k]fluoranthene	182	ug/kg	
Benzo[a]pyrene	226	ug/kg	
Indeno[1,2,3-cd]pyrene	138	ug/kg	
Dibenz[a,h]anthracene	36	ug/kg	
Benzo[g,h,i]perylene	127	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47425	Date Taken:	11/27/01
Sample Description:	Pit 2-01-5	Time Taken:	09:10
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	91.04	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/06/01

Acetone	< 10.0	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10.0	ug/kg
2-Butanone	< 10.0	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10.0	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10.0	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10.0	ug/kg
4-Methyl-2-pentanone	< 10.0	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47425	Date Taken:	11/27/01
Sample Description:	Pit 2-01-5	Time Taken:	09:10
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/04/01
Analysis Date: 12/05/01

Naphthalene	< 25	ug/kg
Acenaphthylene	< 50	ug/kg
Acenaphthene	< 50	ug/kg
Fluorene	< 50	ug/kg
Phenanthrene	< 50	ug/kg
Anthracene	< 50	ug/kg
Fluoranthene	90	ug/kg
Pyrene	86	ug/kg
Benzo[a]anthracene	56	ug/kg
Chrysene	63	ug/kg
Benzo[b]fluoranthene	80	ug/kg
Benzo[k]fluoranthene	65	ug/kg
Benzo[a]pyrene	84	ug/kg
Indeno[1,2,3-cd]pyrene	71	ug/kg
Dibenz[a,h]anthracene	< 20	ug/kg
Benzo[g,h,i]perylene	65	ug/kg

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47426	Date Taken:	11/27/01
Sample Description:	Pit 2-01-6	Time Taken:	09:35
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	91.3	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47427	Date Taken:	11/27/01
Sample Description:	Pit 2-01-7	Time Taken:	10:05
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	89.31	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47428	Date Taken:	11/27/01
Sample Description:	Pit 2-01-8	Time Taken:	10:25
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	89.23	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47429	Date Taken:	11/27/01
Sample Description:	Pit 2-01-9	Time Taken:	10:45
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	83.86	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/05/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47430	Date Taken:	11/27/01
Sample Description:	Pit 2-01-10	Time Taken:	12:45
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	82.9	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47431	Date Taken:	11/27/01
Sample Description:	Pit 2 Pipe 01-11	Time Taken:	13:15
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	86.35	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47432	Date Taken:	11/28/01
Sample Description:	Pit 2 Pipe 01-12	Time Taken:	08:50
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	84.18	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47433	Date Taken:	11/28/01
Sample Description:	E-01-13	Time Taken:	09:15
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	85.59	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/07/01

Acetone	48.1	ug/kg	
Benzene	7.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	12.2	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	5.9	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47433	Date Taken:	11/28/01
Sample Description:	E-01-13	Time Taken:	09:15
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	16.6	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	11.3	ug/kg	

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/04/01
Analysis Date: 12/06/01

Naphthalene	164	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	188	ug/kg	
Fluorene	265	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47434	Date Taken:	11/28/01
Sample Description:	E-01-16	Time Taken:	14:00
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	93.95	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47435	Date Taken:	11/28/01
Sample Description:	E-01-18	Time Taken:	14:40
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	92.90	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/07/01

Acetone	< 10.0	ug/kg	
Benzene	6.4	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	5.6	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47435	Date Taken:	11/28/01
Sample Description:	E-01-18	Time Taken:	14:40
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	15.3	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	11.9	ug/kg	

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/04/01
Analysis Date: 12/06/01

Naphthalene	62	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	105	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47436	Date Taken:	11/28/01
Sample Description:	E-01-19	Time Taken:	15:00
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	93.28	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47437	Date Taken:	11/28/01
Sample Description:	E-01-20	Time Taken:	15:20
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Solids, Total	94.62	%	
BTEX Method 5035/8260B			
Analysis Date: 12/06/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/04/01			
Analysis Date: 12/06/01			
Naphthalene	156	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	114	ug/kg	
Fluorene	288	ug/kg	
Phenanthrene	176	ug/kg	
Anthracene	51	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	92	ug/kg	
Benzo[a]anthracene	59	ug/kg	
Chrysene	237	ug/kg	
Benzo[b]fluoranthene	28	ug/kg	
Benzo[k]fluoranthene	14	ug/kg	
Benzo[a]pyrene	75	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LEVINE FRICKE RECON		
Project ID:	Johns Manville	Date Received:	11/29/01
Sample Number:	47438	Date Taken:	N/A
Sample Description:	Trip Blank	Time Taken:	N/A
Lab File ID:	47421-38	Date Reported:	12/07/01

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 12/06/01			
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 5.0	ug/L	
Bromoform	< 5.0	ug/L	
Bromomethane	< 10.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 5.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 5.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 5.0	ug/L	
trans-1,3-Dichloropropene	< 5.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

CHAIN OF CUSTODY RECORD

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First Environmental Laboratories
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Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy E Teskey

Project I.D.: Johns Manville
P.O. #.: 7992.00

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	BTEX	PNA	VOC 8260						Comments	Lab I.D.
11/27/01-0750	Pit 2-01-1	S	X	X								47421
0810	Pit 2-01-2											47422
0830	Pit 2-01-3											47423
0850	Pit 2-01-4											47424
0910	Pit 2-01-5				X							47425
0935	Pit 2-01-6											47426
1005	Pit 2-01-7											47427
1025	Pit 2-01-8											47428
1045	Pit 2-01-9											47429
1245	Pit 2-01-10											47430
1315	Pit 2-Pipe-01-11											47431
~~11/28/01 0910~~	~~Pit 2-01-12~~											~~H~~

Cooler Temperature: ICE 4.3 °C
Received within 6 hrs. of collection: ____

Notes and Special Instructions: ____

Relinquished By: Wendy E Teskey Date/Time 11/29/01 0900 Received By: [signature] Date/Time 11/29/01 1240
Relinquished By: ____ Date/Time ____ Received By: ____ Date/Time ____

CHAIN OF CU ODY RECORD

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Naperville, Illinois 60563
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24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7779
Send Report To: Bill Bow
Sampled By: Wendy Testry

Project I.D.: Johns Manville
P.O. #.: 7992.00

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	BTEX	PNA	VOC 8260						Comments	Lab I.D.
11/28/01-0850	Pit 2-Pipe-01-12	S	X	X								47432
0915	E-01-13			X	X							47433
1400	E-01-16		X	X								47434
1440	E-01-18			X	X							47435
1500	E-01-19		X	X								47436
1520	E-01-20		X	X								47437
	TRIP BLANK RG											47438

Cooler Temperature: ~~I~~ 4.3 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy A Testry Date/Time 11/29/01 0800 Received By: [signature] Date/Time 11/29/01 1240
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

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E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy E Teshay

Project I.D.: Johns Manville
P.O. #: 7992.00

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Depth	Matrix	BTEX	PNA	VOC 8260						Comments	Lab I.D.
11/27/01-0750	Pit 2-01-1	2-4'	S	X	X								47421
0810	Pit 2-01-2	3-4											47422
0830	Pit 2-01-3	3-4											47423
0850	Pit 2-01-4	3-4											47424
0910	Pit 2-01-5	5-7				X							47425
0935	Pit 2-01-6	4-6											47426
1005	Pit 2-01-7	4-6											47427
1025	Pit 2-01-8	7-8											47428
1045	Pit 2-01-9	6-8											47429
1245	Pit 2-01-10	3-5											47430
1315	Pit 2-Pipe-01-11	4-6											47431
~~11/28/01 0930~~	~~Pit 2-01-12~~												~~47~~

Cooler Temperature: ICE 4.3 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy E Teshay Date/Time 11/29/01 0900 Received By: [signature] Date/Time 11/29/01 1240
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

CHAIN OF CU ODY RECORD

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Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
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Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy Testry

Project I.D.: Johns Manville
P.O. #: 7992.00

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Depth	Matrix	BTEX	PNA	VOC 8260						Comments	Lab I.D.
11/28/01-0850	Pit 2-Pipe-01-12	8-10	S	X	X								47432
0915	E-01-13	4-6			X	X							47433
1400	E-01-16	4-6		X	X								47434
1440	E-01-18	4-6			X	X							47435
1500	E-01-19	4-6		X	X								47436
1520	E-01-20	4-6		X	X								47437
	TRIP BLANK RG												47438

Cooler Temperature: Ice °C 4.3
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy A Testry Date/Time 11/29/01 0800 Received By: [signature] Date/Time 11/29/01 1240
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

First Environmental Laboratories, Inc.
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IEPA Certification #100292

December 10, 2001

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: Johns Manville
First Environmental File ID: 47624-31
Date Received: November 30th, 2001

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report.

Results have been expressed on a dry weight basis per method protocol.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

FOR

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47624	Date Taken:	11/29/01
Sample Description:	E-01-37	Time Taken:	1330
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	94.40	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/08/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47624	Date Taken:	11/29/01
Sample Description:	E-01-37	Time Taken:	1330
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47625	Date Taken:	11/29/01
Sample Description:	T-01-41	Time Taken:	1400
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	95.20	%	
BTEX Method 5035/8260B			
Analysis Date: 12/08/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	34	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	11	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	14	ug/kg	
Benzo[k]fluoranthene	11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47626	Date Taken:	11/29/01
Sample Description:	T-01-44	Time Taken:	1500
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	93.30	%	
BTEX Method 5035/8260B			
Analysis Date: 12/08/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47627	Date Taken:	11/30/01
Sample Description:	D-01-45	Time Taken:	0800
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	96.67	%	
BTEX Method 5035/8260B			
Analysis Date: 12/09/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47628	Date Taken:	11/30/01
Sample Description:	D-01-46	Time Taken:	0815
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	94.64	%	
BTEX Method 5035/8260B			
Analysis Date: 12/09/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	12	ug/kg	
Benzo[k]fluoranthene	11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47629	Date Taken:	11/30/01
Sample Description:	D-01-47	Time Taken:	0835
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	96.25	%	
BTEX Method 5035/8260B			
Analysis Date: 12/09/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47630	Date Taken:	11/30/01
Sample Description:	D-01-52	Time Taken:	1015
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	97.70	%	
BTEX Method 5035/8260B			
Analysis Date: 12/09/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	Johns Manville	Date Received:	11/30/01
Sample Number:	47631	Date Taken:	11/30/01
Sample Description:	D-01-53	Time Taken:	1035
Lab File ID:	47624-31	Date Reported:	12/10/01

Analyte	Result	Units	Flags
Solids, Total	96.17	%	
BTEX Method 5035/8260B			
Analysis Date: 12/09/01			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/05/01			
Analysis Date: 12/07/01			
Naphthalene	134	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	87	ug/kg	
Benzo[a]anthracene	11	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy Yerbery

Project I.D.: Johns Manville
P.O. #.: 7992.00

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOC 8260	BTEX	PNA						Comments	Lab I.D.
11/29/01 1330	E-01-37	S	X		X							47624
1400	T-01-41	S		X	X							47625
1500	T-01-44	S		X	X							47626
11/30/01 0800	D-01-45	S		X	X							47627
0815	D-01-46	S		X	X							47628
0835	D-01-47	S		X	X							47629
1015	D-01-52	S		X	X							47630
1035	D-01-53	S		X	X							47631

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: [signature] Date/Time 11/30/01 Received By: Irene R. Plaza Date/Time 11-30-01 1730
Relinqu By: _____ Date/Time _____ :eived By: _____ Date/Time _____

Rev. 1/0.

CHAIN OF CU.)DY RECORD

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IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7779
Send Report To: Bill Bow
Sampled By: Wendy Yerbey

Project I.D.: Johns Manville
P.O. #.: 7992.00

Analyses

Matrix Codes: S = Soil W = Water O = Other

Date/Time Taken	Sample Description	Depth	Matrix	VOC 8260	BTEX	PNA						Comments	Lab I.D.
11/29/01 1330	E-01-37	4-6	S	X		X							47624
1400	T-01-41	2-4	S		X	X							47625
1500	T-01-44	4-6	S		X	X							47626
11/30/01 0800	D-01-45	2-4	S		X	X							47627
0815	D-01-46	2-4	S		X	X							47628
0835	D-01-47	2-4	S		X	X							47629
1015	D-01-52	2-4	S		X	X							47630
1035	D-01-53	2-4	S		X	X							47631

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: [signature] Date/Time 11/30/01 Received By: Irene R. Plaggs Date/Time 11-30-01 1730
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

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December 12, 2001

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: 7992-00 Johns Manville
First Environmental File ID: 47907-12
Date Received: December 5, 2001

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report.

Results, except for SPLP Metals, have been expressed on a dry weight basis per method protocol.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47907	Date Taken:	12/03/01
Sample Description:	Pit 5-01-73	Time Taken:	1030
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	87.77	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/12/01

Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	56.3	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	43.5	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47907	Date Taken:	12/03/01
Sample Description:	Pit 5-01-73	Time Taken:	1030
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/06/01			
Analysis Date: 12/07/01			
Naphthalene	1,270	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	258	ug/kg	
Fluorene	189	ug/kg	
Phenanthrene	332	ug/kg	
Anthracene	122	ug/kg	
Fluoranthene	679	ug/kg	
Pyrene	820	ug/kg	
Benzo[a]anthracene	200	ug/kg	
Chrysene	193	ug/kg	
Benzo[b]fluoranthene	166	ug/kg	
Benzo[k]fluoranthene	119	ug/kg	
Benzo[a]pyrene	173	ug/kg	
Indeno[1,2,3-cd]pyrene	81	ug/kg	
Dibenz[a,h]anthracene	22	ug/kg	
Benzo[g,h,i]perylene	90	ug/kg	
Method 8015			
Analysis Date: 12/10/01			
Methanol	< 100	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47908	Date Taken:	12/03/01
Sample Description:	Pit 5-01-77	Time Taken:	1100
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	87.21	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/12/01

Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	362	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	2,140	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47908	Date Taken:	12/03/01
Sample Description:	Pit 5-01-77	Time Taken:	1100
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/06/01			
Analysis Date: 12/07/01			
Naphthalene	2,540	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	84	ug/kg	
Fluorene	96	ug/kg	
Phenanthrene	306	ug/kg	
Anthracene	131	ug/kg	
Fluoranthene	184	ug/kg	
Pyrene	1,540	ug/kg	
Benzo[a]anthracene	195	ug/kg	
Chrysene	386	ug/kg	
Benzo[b]fluoranthene	110	ug/kg	
Benzo[k]fluoranthene	63	ug/kg	
Benzo[a]pyrene	220	ug/kg	
Indeno[1,2,3-cd]pyrene	72	ug/kg	
Dibenz[a,h]anthracene	38	ug/kg	
Benzo[g,h,i]perylene	211	ug/kg	
Method 8015			
Analysis Date: 12/10/01			
Methanol	< 100	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47909	Date Taken:	12/04/01
Sample Description:	H-01-90	Time Taken:	1435
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Date Analyzed	Method
pH @ 25°C (1:10)	7.06	units	12/05/01	9045C
Total Metals				
Arsenic	1.3	mg/kg	12/10/01	3050B/6010B
Barium	6.8	mg/kg	12/10/01	3050B/6010B
Cadmium	<0.1	mg/kg	12/10/01	3050B/6010B
Chromium	4.1	mg/kg	12/10/01	3050B/6010B
Lead	4.3	mg/kg	12/10/01	3050B/6010B
Mercury	<0.05	mg/kg	12/07/01	7470A
Selenium	<0.2	mg/kg	12/10/01	3050B/6010B
Silver	<0.1	mg/kg	12/10/01	3050B/6010B
SPLP Metals				
Arsenic	<0.002	mg/L	12/10/01	3010A/6010B
Barium	<1.0	mg/L	12/10/01	3010A/6010B
Cadmium	<0.001	mg/L	12/10/01	3010A/6010B
Chromium	0.003	mg/L	12/10/01	3010A/6010B
Lead	<0.002	mg/L	12/10/01	3010A/6010B
Mercury	<0.0005	mg/L	12/07/01	7470A
Selenium	<0.002	mg/L	12/10/01	3010A/6010B
Silver	<0.001	mg/L	12/10/01	3010A/6010B

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47909	Date Taken:	12/04/01
Sample Description:	H-01-90	Time Taken:	1435
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	90.61	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/11/01

Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47909	Date Taken:	12/04/01
Sample Description:	H-01-90	Time Taken:	1435
Lab File ID:	47907-12	Date Reported:	12/12/01

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 12/06/01
Analysis Date: 12/07/01

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 330	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 330	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47909	Date Taken:	12/04/01
Sample Description:	H-01-90	Time Taken:	1435
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Dimethylphthalate	< 330	ug/kg	
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 330	ug/kg	
2,6-Dinitrotoluene	< 330	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 330	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 1,600	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47910	Date Taken:	12/04/01
Sample Description:	H-01-91	Time Taken:	1505
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Date Analyzed	Method
pH @ 25°C (1:10)	6.88	units	12/05/01	9045C
Total Metals				
Arsenic	1.1	mg/kg	12/10/01	3050B/6010B
Barium	4.0	mg/kg	12/10/01	3050B/6010B
Cadmium	<0.1	mg/kg	12/10/01	3050B/6010B
Chromium	4.8	mg/kg	12/10/01	3050B/6010B
Lead	1.8	mg/kg	12/10/01	3050B/6010B
Mercury	<0.05	mg/kg	12/07/01	7470A
Selenium	<0.2	mg/kg	12/10/01	3050B/6010B
Silver	<0.1	mg/kg	12/10/01	3050B/6010B
SPLP Metals				
Arsenic	<0.002	mg/L	12/10/01	3010A/6010B
Barium	<1.0	mg/L	12/10/01	3010A/6010B
Cadmium	<0.001	mg/L	12/10/01	3010A/6010B
Chromium	0.002	mg/L	12/10/01	3010A/6010B
Lead	<0.002	mg/L	12/10/01	3010A/6010B
Mercury	<0.0005	mg/L	12/07/01	7470A
Selenium	<0.002	mg/L	12/10/01	3010A/6010B
Silver	<0.001	mg/L	12/10/01	3010A/6010B

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47910	Date Taken:	12/04/01
Sample Description:	H-01-91	Time Taken:	1505
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	91.25	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/11/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47910	Date Taken:	12/04/01
Sample Description:	H-01-91	Time Taken:	1505
Lab File ID:	47907-12	Date Reported:	12/12/01

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 12/06/01
Analysis Date: 12/07/01

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 330	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 330	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47910	Date Taken:	12/04/01
Sample Description:	H-01-91	Time Taken:	1505
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Dimethylphthalate	< 330	ug/kg	
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 330	ug/kg	
2,6-Dinitrotoluene	< 330	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 330	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 1,600	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47911	Date Taken:	12/04/01
Sample Description:	H-01-92	Time Taken:	1545
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Date Analyzed	Method
pH @ 25°C (1:10)	6.86	units	12/05/01	9045C
Total Metals				
Arsenic	1.1	mg/kg	12/10/01	3050B/6010B
Barium	3.6	mg/kg	12/10/01	3050B/6010B
Cadmium	<0.1	mg/kg	12/10/01	3050B/6010B
Chromium	3.7	mg/kg	12/10/01	3050B/6010B
Lead	1.6	mg/kg	12/10/01	3050B/6010B
Mercury	<0.05	mg/kg	12/07/01	7470A
Selenium	<0.2	mg/kg	12/10/01	3050B/6010B
Silver	<0.1	mg/kg	12/10/01	3050B/6010B
SPLP Metals				
Arsenic	<0.002	mg/L	12/10/01	3010A/6010B
Barium	<1.0	mg/L	12/10/01	3010A/6010B
Cadmium	<0.001	mg/L	12/10/01	3010A/6010B
Chromium	0.002	mg/L	12/10/01	3010A/6010B
Lead	<0.002	mg/L	12/10/01	3010A/6010B
Mercury	<0.0005	mg/L	12/07/01	7470A
Selenium	0.003	mg/L	12/10/01	3010A/6010B
Silver	0.002	mg/L	12/10/01	3010A/6010B

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47911	Date Taken:	12/04/01
Sample Description:	H-01-92	Time Taken:	1545
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	94.08	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 12/12/01

Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47911	Date Taken:	12/04/01
Sample Description:	H-01-92	Time Taken:	1545
Lab File ID:	47907-12	Date Reported:	12/12/01

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 12/06/01
Analysis Date: 12/07/01

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 330	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 330	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47911	Date Taken:	12/04/01
Sample Description:	H-01-92	Time Taken:	1545
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Dimethylphthalate	< 330	ug/kg	
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 330	ug/kg	
2,6-Dinitrotoluene	< 330	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 330	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 1,600	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47912	Date Taken:	12/04/01
Sample Description:	H-01-93	Time Taken:	1610
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Date Analyzed	Method
pH @ 25°C (1:10)	6.90	units	12/05/01	9045C
Total Metals				
Arsenic	1.5	mg/kg	12/10/01	3050B/6010B
Barium	9.0	mg/kg	12/10/01	3050B/6010B
Cadmium	<0.1	mg/kg	12/10/01	3050B/6010B
Chromium	4.2	mg/kg	12/10/01	3050B/6010B
Lead	5.1	mg/kg	12/10/01	3050B/6010B
Mercury	<0.05	mg/kg	12/07/01	7470A
Selenium	0.3	mg/kg	12/10/01	3050B/6010B
Silver	<0.1	mg/kg	12/10/01	3050B/6010B
SPLP Metals				
Arsenic	<0.002	mg/L	12/10/01	3010A/6010B
Barium	<1.0	mg/L	12/10/01	3010A/6010B
Cadmium	<0.001	mg/L	12/10/01	3010A/6010B
Chromium	0.002	mg/L	12/10/01	3010A/6010B
Lead	<0.002	mg/L	12/10/01	3010A/6010B
Mercury	<0.0005	mg/L	12/07/01	7470A
Selenium	<0.002	mg/L	12/10/01	3010A/6010B
Silver	<0.001	mg/L	12/10/01	3010A/6010B

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47912	Date Taken:	12/04/01
Sample Description:	H-01-93	Time Taken:	1610
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Solids, Total	95.32	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/12/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47912	Date Taken:	12/04/01
Sample Description:	H-01-93	Time Taken:	1610
Lab File ID:	47907-12	Date Reported:	12/12/01

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 12/06/01
Analysis Date: 12/07/01

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 330	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 330	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	7992-00	Date Received:	12/05/01
Sample Number:	47912	Date Taken:	12/04/01
Sample Description:	H-01-93	Time Taken:	1610
Lab File ID:	47907-12	Date Reported:	12/12/01

Analyte	Result	Units	Flags
Dimethylphthalate	< 330	ug/kg	
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 330	ug/kg	
2,6-Dinitrotoluene	< 330	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 330	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 1,600	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
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Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy Teskey

Project I.D.: 7992-00-
P.O. #.: Johns Manville

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOC 8260	PNA 8310	methanol	SVOC 8270	Total RCRA Metals	SPLP RCRA Metals	PH		Comments	Lab I.D.
12/3/01-1030	Pit 5-01-73	S	X	X	X							47907
12/3/01-1100	Pit 5-01-77		X	X	X							47908
12/4/01-1435	H-01-90		X			X	X	X	X			47909
-1505	H-01-91		X			X	X	X	X			47910
-1545	H-01-92		X			X	X	X	X			47911
-1610	H-01-93		X			X	X	X	X			47912

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy Teskey Date/Time 12/5/01 0800 Received By: Irene R. Plogge Date/Time 12-5-01 0800
Relinqui By: _____ Date/Time _____ eived By: _____ Date/Time _____

Rev. 1/01

CHAIN OF CU ODY RECORD

First Environmental Laboratories, Inc.

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Naperville, Illinois 60563
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E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy Teskey

Project I.D.: 7992-00-
P.O. #.: Johns Manville

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Depth	Matrix	VOC 8260	PNA 8310	methanol	SVOC 8270	Total RCRA Metals	SPLP RCRA Metals	PH		Comments	Lab I.D.
12/3/01-1030	Pit5-01-73	2-4	S	X	X	X							47907
12/3/01-1100	Pit5-01-77	2-4		X	X	X							47908
12/4/01-1435	H-01-90	2-4		X			X	X	X	X			47909
-1505	H-01-91	2-4		X			X	X	X	X			47910
-1545	H-01-92	2-4		X			X	X	X	X			47911
-1610	H-01-93	2-4		X			X	X	X	X			47912

Cooler Temperature: 4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy E. Teskey Date/Time 12/5/01 0800 Received By: Irene R. Plaza Date/Time 12-5-01 0800
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

First Environmental Laboratories, Inc.
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December 19, 2001

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: 009-07992-00-003
First Environmental File ID: 48429-49
Date Received: December 12, 2001

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report. Results have been expressed on a dry weight basis per method protocol.

NOTE: Some reporting limits have been elevated due to matrix interferences.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

W. Mottashed

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.

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IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48429	Date Taken:	12/10/01
Sample Description:	STF-0194-2-3	Time Taken:	805
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	87.52	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48429	Date Taken:	12/10/01
Sample Description:	STF-0194-2-3	Time Taken:	805
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/14/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48430	Date Taken:	12/10/01
Sample Description:	STF-0195-2-3	Time Taken:	840
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	86.76	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48430	Date Taken:	12/10/01
Sample Description:	STF-0195-2-3	Time Taken:	840
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48431	Date Taken:	12/10/01
Sample Description:	STF-0196-2-3	Time Taken:	900
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	88.44	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48431	Date Taken:	12/10/01
Sample Description:	STF-0196-2-3	Time Taken:	900
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/14/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	
FOC Method D2974-87			
Analysis Date: 12/18/01			
FOC	0.23	%	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48432	Date Taken:	12/10/01
Sample Description:	STF-0197-2-3	Time Taken:	925
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	89.89	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48432	Date Taken:	12/10/01
Sample Description:	STF-0197-2-3	Time Taken:	925
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48433	Date Taken:	12/10/01
Sample Description:	STF-0198-2-3	Time Taken:	950
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	91.06	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	6.4	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48433	Date Taken:	12/10/01
Sample Description:	STF-0198-2-3	Time Taken:	950
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48434	Date Taken:	12/10/01
Sample Description:	STF-0199-6-7	Time Taken:	1030
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	93.42	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48434	Date Taken:	12/10/01
Sample Description:	STF-0199-6-7	Time Taken:	1030
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48435	Date Taken:	12/10/01
Sample Description:	STF-01100-5.5-6	Time Taken:	1050
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	96.52	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48435	Date Taken:	12/10/01
Sample Description:	STF-01100-5.5-6	Time Taken:	1050
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48436	Date Taken:	12/10/01
Sample Description:	STF-01101-5-6	Time Taken:	1115
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	93.06	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48436	Date Taken:	12/10/01
Sample Description:	STF-01101-5-6	Time Taken:	1115
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C
Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

FOC Method D2974-87
Analysis Date: 12/18/01

FOC	0.11	%	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48437	Date Taken:	12/10/01
Sample Description:	STF-01102-5-6	Time Taken:	1145
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	95.11	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48437	Date Taken:	12/10/01
Sample Description:	STF-01102-5-6	Time Taken:	1145
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48438	Date Taken:	12/10/01
Sample Description:	STF-01103-5-7	Time Taken:	1220
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	93.00	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48438	Date Taken:	12/10/01
Sample Description:	STF-01103-5-7	Time Taken:	1220
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	236	ug/kg	
Pyrene	250	ug/kg	
Benzo[a]anthracene	159	ug/kg	
Chrysene	153	ug/kg	
Benzo[b]fluoranthene	146	ug/kg	
Benzo[k]fluoranthene	156	ug/kg	
Benzo[a]pyrene	198	ug/kg	
Indeno[1,2,3-cd]pyrene	132	ug/kg	
Dibenz[a,h]anthracene	39	ug/kg	
Benzo[g,h,i]perylene	112	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48439	Date Taken:	12/10/01
Sample Description:	STF-01104-5-6	Time Taken:	1245
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	92.07	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48439	Date Taken:	12/10/01
Sample Description:	STF-01104-5-6	Time Taken:	1245
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	10	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48440	Date Taken:	12/10/01
Sample Description:	STF-01105-5-6	Time Taken:	1310
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	86.53	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48440	Date Taken:	12/10/01
Sample Description:	STF-01105-5-6	Time Taken:	1310
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C
Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48441	Date Taken:	12/10/01
Sample Description:	STF-01106-5-6	Time Taken:	1345
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	95.75	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48441	Date Taken:	12/10/01
Sample Description:	STF-01106-5-6	Time Taken:	1345
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/14/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48442	Date Taken:	12/10/01
Sample Description:	STF-01107-5-6	Time Taken:	1410
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	93.31	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	6.2	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48442	Date Taken:	12/10/01
Sample Description:	STF-01107-5-6	Time Taken:	1410
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/15/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48443	Date Taken:	12/10/01
Sample Description:	STF-01108-4.5-5	Time Taken:	1445
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	94.94	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48443	Date Taken:	12/10/01
Sample Description:	STF-01108-4.5-5	Time Taken:	1445
Lab File ID:	48429-49	Date Reported:	12/19/01

Polynuclear Aromatic Compounds Method 3540C/8270C

Preparation Date: 12/13/01
Analysis Date: 12/15/01

Analyte	Result	Units	Flags
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	14	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	15	ug/kg	
Benzo[k]fluoranthene	11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48444	Date Taken:	12/10/01
Sample Description:	STF-01126-5-5.5	Time Taken:	1410
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Solids, Total	93.85	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48444	Date Taken:	12/10/01
Sample Description:	STF-01126-5-5.5	Time Taken:	1410
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/15/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48445	Date Taken:	12/18/01
Sample Description:	STF-01127-5-5.5	Time Taken:	1435
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Solids, Total	93.51	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48445	Date Taken:	12/10/01
Sample Description:	STF-01127-5-5.5	Time Taken:	1435
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/15/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48446	Date Taken:	12/10/01
Sample Description:	STF-01128-5-5.5	Time Taken:	1500
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Solids, Total	94.38	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48446	Date Taken:	12/10/01
Sample Description:	STF-01128-5-5.5	Time Taken:	1500
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/15/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48447	Date Taken:	12/10/01
Sample Description:	STF-01129-5-5.5	Time Taken:	1530
Lab File ID:	48429-49	Date Reported:	12/19/01

Analyte	Result	Units	Flags
Solids, Total	98.07	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Methyl Ethyl Ketone	< 10.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	6.7	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48447	Date Taken:	12/1~~0~~/01
Sample Description:	STF-01129-5-5.5	Time Taken:	1530
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/15/01			
Naphthalene	< 25	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	< 8.7	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	< 11	ug/kg	
Benzo[k]fluoranthene	< 11	ug/kg	
Benzo[a]pyrene	< 15	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	< 20	ug/kg	
Benzo[g,h,i]perylene	< 50	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48449	Date Taken:	12/10/01
Sample Description:	SR-01132-3.5-4	Time Taken:	940
Lab File ID:	48429-49	Date Reported:	12/19/01

2/11/02

Analyte	Result	Units	Flags
Solids, Total	91.44	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 12/18/01			
Acetone	< 1,000	ug/kg	
Benzene	< 1,000	ug/kg	
Bromodichloromethane	< 1,000	ug/kg	
Bromoform	< 1,000	ug/kg	
Bromomethane	< 1,000	ug/kg	
Carbon disulfide	< 1,000	ug/kg	
Carbon tetrachloride	< 1,000	ug/kg	
Chlorobenzene	< 1,000	ug/kg	
Chlorodibromomethane	< 1,000	ug/kg	
Chloroethane	< 1,000	ug/kg	
Chloroform	< 1,000	ug/kg	
Chloromethane	< 1,000	ug/kg	
1,1-Dichloroethane	< 1,000	ug/kg	
1,2-Dichloroethane	< 1,000	ug/kg	
1,1-Dichloroethene	< 1,000	ug/kg	
cis-1,2-Dichloroethene	< 1,000	ug/kg	
trans-1,2-Dichloroethene	< 1,000	ug/kg	
1,2-Dichloropropane	< 1,000	ug/kg	
cis-1,3-Dichloropropene	< 1,000	ug/kg	
trans-1,3-Dichloropropene	< 1,000	ug/kg	
Ethyl benzene	55,500	ug/kg	
2-Hexanone	< 1,000	ug/kg	
4-Methyl-2-pentanone	< 1,000	ug/kg	
Methylene chloride	< 1,000	ug/kg	
Methyl Ethyl Ketone	< 1,000	ug/kg	
Styrene	< 1,000	ug/kg	
1,1,2,2-Tetrachloroethane	< 1,000	ug/kg	
Tetrachloroethene	< 1,000	ug/kg	
Toluene	2,040,000	ug/kg	
1,1,1-Trichloroethane	< 1,000	ug/kg	
1,1,2-Trichloroethane	< 1,000	ug/kg	
Trichloroethene	< 1,000	ug/kg	
Vinyl Acetate	< 1,000	ug/kg	
Vinyl Chloride	< 1,000		
Xylenes (total)	238,000		

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48449	Date Taken:	12/12/01
Sample Description:	SR-01132-3.5-4	Time Taken:	940
Lab File ID:	48429-49	Date Reported:	12/19/01

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Analyte	Result	Units	Flags
Polynuclear Aromatic Compounds Method 3540C/8270C			
Preparation Date: 12/13/01			
Analysis Date: 12/15/01			
Naphthalene	487	ug/kg	
Acenaphthylene	< 50	ug/kg	
Acenaphthene	< 50	ug/kg	
Fluorene	< 50	ug/kg	
Phenanthrene	< 50	ug/kg	
Anthracene	< 50	ug/kg	
Fluoranthene	< 50	ug/kg	
Pyrene	< 50	ug/kg	
Benzo[a]anthracene	15	ug/kg	
Chrysene	< 50	ug/kg	
Benzo[b]fluoranthene	23	ug/kg	
Benzo[k]fluoranthene	31	ug/kg	
Benzo[a]pyrene	< 48	ug/kg	
Indeno[1,2,3-cd]pyrene	< 29	ug/kg	
Dibenz[a,h]anthracene	21	ug/kg	
Benzo[g,h,i]perylene	56	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/12/01
Sample Number:	48448	Date Taken:	N/A
Sample Description:	Trip Blank	Time Taken:	N/A
Lab File ID:	48429-49	Date Reported:	12/19/01

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 12/18/01

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 5.0	ug/L	
Bromoform	< 5.0	ug/L	
Bromomethane	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 5.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 5.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 5.0	ug/L	
trans-1,3-Dichloropropene	< 5.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Methyl Ethyl Ketone	< 10.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

CHAIN OF CU ODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: (847) 695-8855 Fax: (847) 695-~~8855~~ 7799
Send Report To: Bill Bow
Sampled By: John Chitwood

Project I.D.: 009-02992-00-003
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOCs* 8260	PNA 8270	TOC ASTM**					Comments	Lab I.D.
12/10 805	STF-0194-2-3	S	X	X							48429
12/10 840	STF-0195-2-3	S	X	X							48430
12/10 900	STF-0196-2-3	S	X	X	X						48431
12/10 925	STF-0197-2-3	S	X	X							48432
12/10 950	STF-0198-2-3	S	X	X							48433
12/10 1030	STF-0199-6-7	S	X	X							48434
12/10 1050	STF-01100-5.5-6	S	X	X							48435
12/10 1115	STF-01101-5-6	S	X	X	X						48436
12/10 1145	STF-01102-5-6	S	X	X							48437
12/10 1220	STF-01103-5-7	S	X	X							48438
12/10 1245	STF-01104-5-6	S	X	X							48439
12/10 1310	STF-01105-5-6	S	X	X							48440

Cooler Temperature: ~~16~~ 1.1 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: *Include methyl ethyl ketone **TOC only if volume permits

Relinquished By: [signature] Date/Time 12/12/01 Received By: [signature] Date/Time 12/12/01 1305
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

CHAIN OF CU ODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Road Suite D
City: Elgin State: IL Zip: 60123
Phone: (847) 695-8855 Fax: (847) 695-7799
Send Report To: Bill Bow
Sampled By: John Chitwood

Project I.D.: 009-07992-00-003
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOCs * 8260	PNA 8270	TOC ASTM						Comments	Lab I.D.
12/10 1345	STF-01106-5-6	S	X	X								48441
12/10 1410	STF-01107-5-6	S	X	X								48442
12/10 1445	STF-01108-4.5-5	S	X	X								48443
12/11 1410	STF-01126-5-5.5	S	X	X								48444
12/11 1435	STF-01127-5-5.5	S	X	X								48445
12/11 1500	STF-01128-5-5.5	S	X	X								48446
12/11 1530	STF-01129-5-5.5	S	X	X								48447
	Trip Blank	W										48448
12/12 0940	SR-01132-3.5-4	S	X	X							May be High Concentration	48449

Cooler Temperature: ICE °C 1.1
Received within 6 hrs. of collection: _____

Notes and Special Instructions: * VOCs include methyl ethyl ketone

Relinquished By: [signature] Date/Time 12/12/01 Received By: [signature] Date/Time 12/12/01 1305
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

December 20, 2001

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: 009-07992-00-003
First Environmental File ID: 48517-18
Date Received: December 13, 2001

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report.

Results have been expressed on a dry weight basis per method protocol.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/13/01
Sample Number:	48517	Date Taken:	12/13/01
Sample Description:	H-01147-2.4-4	Time Taken:	1235
Lab File ID:	48517-18	Date Reported:	12/20/01

Analyte	Result	Units	Flags
Solids, Total	72.61	%	
Volatile Organic Compounds Method 8260B			
Analysis Date: 12/19/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/13/01
Sample Number:	48517	Date Taken:	12/13/01
Sample Description:	H-01147-2.4-4	Time Taken:	1235
Lab File ID:	48517-18	Date Reported:	12/20/01

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 12/18/01
Analysis Date: 12/19/01

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 330	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 330	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/13/01
Sample Number:	48517	Date Taken:	12/13/01
Sample Description:	H-01147-2.4-4	Time Taken:	1235
Lab File ID:	48517-18	Date Reported:	12/20/01

Analyte	Result	Units	Flags
Dimethylphthalate	< 330	ug/kg	
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 330	ug/kg	
2,6-Dinitrotoluene	< 330	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 330	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 1,600	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	009-07992-00-003	Date Received:	12/13/01
Sample Number:	48518	Date Taken:	12/13/01
Sample Description:	H-01148-2-2.8	Time Taken:	1300
Lab File ID:	48517-18	Date Reported:	12/20/01

Analyte	Result	Units	Flags
Solids, Total	74.48	%	
Volatile Organic Compounds Method 8260B			
Analysis Date: 12/19/01			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 6300 Tollgate Rd, Suite D 60123
City: Elgin State: IL Zip: ~~60174~~
Phone: (847) 695-8855 Fax: (847) 695-7799
Send Report To: Bill Bow
Sampled By: John Chitwood

Project I.D.: 009-07992-00-003
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOC	SVOC							Comments	Lab I.D.
12/13 ~~1355~~ 1235	H-01147-2.4-4	S	X	X							Reacts w/acid; no	48517
12/13 1300	H-01148-2-2.8	S	X								5035 vials	48518
											Sample may contain	
											asbestos.	

Cooler Temperature: _____ °C
Received within 6 hrs. of collection: ✓

Notes and Special Instructions:

Relinquished By: John Chitwood Date/Time 12/13/01 1620 Received By: Ryan G Date/Time 12/13/01 1620
Relinqui By: _____ Date/Time _____ ceived By: _____ Date/Time _____

Rev. 1/01

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

20 December 2001

Bill Bow
Levine-Fricke-Recon
630 Tollgate Rd., Suite D
Elgin, IL 60123
RE: 009-07992-00-003

Enclosed are the results of analyses for samples received by the laboratory on 12/13/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

;ine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H-01147-2.4-4	B112197-01	Waste (S)	12/13/01 12:35	12/13/01 16:14
H-01148-2-2.8	B112197-02	Waste (S)	12/13/01 13:00	12/13/01 16:14

:eat Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
1380 Busch Parkway
Buffalo Grove, Illinois 60089
Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

vine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-01147-2.4-4 (B112197-01) Waste (S)	**Sampled: 12/13/01 12:35**		**Received: 12/13/01 16:14**						**G3**
Acetone	ND	25.0	ug/kg wet	1	1120330	12/18/01	12/18/01	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*81.2-134*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*154 %*	*50.8-145*		"	"	"	"	*O5*
Surrogate: Toluene-d8		*107 %*	*82-121*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*76.8-113*		"	"	"	"	

eat Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

vine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-01148-2-2.8 (B112197-02) Waste (S)	**Sampled: 12/13/01 13:00**		**Received: 12/13/01 16:14**						**G3**
Acetone	ND	25.0	ug/kg wet	1	1120330	12/18/01	12/17/01	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*81.2-134*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*154 %*	*50.8-145*		"	"	"	"	*O5*
Surrogate: Toluene-d8		*106 %*	*82-121*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*76.8-113*		"	"	"	"	

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Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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vine-Fricke-Recon
o30 Tollgate Rd., Suite D
Elgin IL, 60123

Project: 009-07992-00-003
Project Number: N/A
Project Manager: Bill Bow

Reported:
12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-01147-2.4-4 (B112197-01) Waste (S)	**Sampled: 12/13/01 12:35**		**Received: 12/13/01 16:14**						**G15**
Acenaphthene	ND	100	ug/kg wet	1	1120352	12/18/01	12/19/01	EPA 8270C	
Acenaphthylene	ND	100	"	"	"	"	"	"	
Aniline	ND	100	"	"	"	"	"	"	
Anthracene	ND	100	"	"	"	"	"	"	
Benzoic acid	ND	500	"	"	"	"	"	"	
Benz (a) anthracene	ND	100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	58.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"	
Benzyl alcohol	ND	100	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"	
·l benzyl phthalate	ND	100	"	"	"	"	"	"	
·hloroaniline	ND	100	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"	
2-Chloronaphthalene	ND	100	"	"	"	"	"	"	
2-Chlorophenol	ND	100	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"	
Chrysene	ND	100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	58.0	"	"	"	"	"	"	
Dibenzofuran	ND	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"	
Diethyl phthalate	ND	100	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"	
Dimethyl phthalate	ND	100	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"	
Fluoranthene	ND	100	"	"	"	"	"	"	
Fluorene	ND	100	"	"	"	"	"	"	
Hexachlorobenzene	ND	100	"	"	"	"	"	"	

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Andy Johnson, Project Manager

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·ine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-01147-2.4-4 (B112197-01) Waste (S)	**Sampled: 12/13/01 12:35**		**Received: 12/13/01 16:14**						**G15**
Hexachlorobutadiene	ND	100	ug/kg wet	1	1120352	12/18/01	12/19/01	EPA 8270C	
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"	
Hexachloroethane	ND	100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"	
Isophorone	ND	100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	100	"	"	"	"	"	"	
o-Cresol	ND	100	"	"	"	"	"	"	
m,p-Cresols	ND	100	"	"	"	"	"	"	
Naphthalene	ND	100	"	"	"	"	"	"	
2-Nitroaniline	ND	500	"	"	"	"	"	"	
3-Nitroaniline	ND	500	"	"	"	"	"	"	
4-Nitroaniline	ND	500	"	"	"	"	"	"	
Nitrobenzene	ND	100	"	"	"	"	"	"	
2-Nitrophenol	ND	100	"	"	"	"	"	"	
4-Nitrophenol	ND	500	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"	
·itrosodiphenylamine	ND	100	"	"	"	"	"	"	
..tachlorophenol	ND	500	"	"	"	"	"	"	
Phenanthrene	ND	100	"	"	"	"	"	"	
Phenol	ND	100	"	"	"	"	"	"	
Pyrene	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*2.22 %*	*10-109*		"	"	"	"	*O4*
Surrogate: Phenol-d6		*20.1 %*	*10-115*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*80.4 %*	*10-114*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*78.0 %*	*10-106*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*%*	*19.3-88.7*		"	"	"	"	*O4*
Surrogate: p-Terphenyl-d14		*77.4 %*	*10-126*		"	"	"	"	

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/ine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120330 - EPA 5035B [P/T]										
Blank (1120330-BLK1)				Prepared: 12/18/01 Analyzed: 12/17/01						
Acetone	ND	25.0	ug/kg wet							
Benzene	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
Carbon disulfide	ND	5.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	5.00	"							
Chlorodibromomethane	ND	5.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	5.00	"							
Chloromethane	ND	5.00	"							
)ichloroethane	ND	5.00	"							
)ichloroethane	ND	5.00	"							
1,1-Dichloroethene	ND	5.00	"							
cis-1,2-Dichloroethene	ND	5.00	"							
trans-1,2-Dichloroethene	ND	5.00	"							
1,2-Dichloropropane	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
2-Hexanone	ND	10.0	"							
Methylene chloride	ND	5.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Styrene	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	5.00	"							
Toluene	ND	5.00	"							
1,1,1-Trichloroethane	ND	5.00	"							
1,1,2-Trichloroethane	ND	5.00	"							
Trichloroethene	ND	5.00	"							
Trichlorofluoromethane	ND	5.00	"							
Vinyl acetate	ND	10.0	"							
Vinyl chloride	ND	5.00	"							
Total Xylenes	ND	5.00	"							
Surrogate: Dibromofluoromethane	*55.0*		"	*50.0*		*110*	*81.2-134*			
Surrogate: 1,2-Dichloroethane-d4	*74.5*		"	*50.0*		*149*	*50.8-145*			

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Andy Johnson, Project Manager

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vine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120330 - EPA 5035B [P/T]										
Blank (1120330-BLK1)				Prepared: 12/18/01		Analyzed: 12/17/01				
Surrogate: Toluene-d8	*52.5*		*ug/kg wet*	*50.0*		*105*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.4*		*"*	*50.0*		*101*	*76.8-113*			
LCS (1120330-BS1)				Prepared: 12/18/01		Analyzed: 12/17/01				
Acetone	205	25.0	ug/kg wet	50.0		410	10-166			
Benzene	46.8	5.00	"	50.0		93.6	62.1-138			
Bromodichloromethane	69.4	5.00	"	50.0		139	64.3-125			
Bromoform	73.1	5.00	"	50.0		146	47.5-124			
Bromomethane	88.2	5.00	"	50.0		176	49.2-198			
2-Butanone	117	10.0	"	50.0		234	10-214			
Carbon disulfide	37.6	5.00	"	50.0		75.2	10-175			
Carbon tetrachloride	66.7	5.00	"	50.0		133	51.1-134			
Chlorobenzene	49.6	5.00	"	50.0		99.2	63.5-135			
'orodibromomethane	64.5	5.00	"	50.0		129	67.5-121			
roethane	54.7	5.00	"	50.0		109	10-537			
Chloroform	59.4	5.00	"	50.0		119	69.2-124			
Chloromethane	41.2	5.00	"	50.0		82.4	67.4-162			
1,1-Dichloroethane	40.6	5.00	"	50.0		81.2	63-127			
1,2-Dichloroethane	81.2	5.00	"	50.0		162	57.5-125			
1,1-Dichloroethene	48.9	5.00	"	50.0		97.8	59.9-129			
cis-1,2-Dichloroethene	49.1	5.00	"	50.0		98.2	64.4-137			
trans-1,2-Dichloroethene	44.5	5.00	"	50.0		89.0	59-136			
1,2-Dichloropropane	49.1	5.00	"	50.0		98.2	66.3-132			
cis-1,3-Dichloropropene	64.9	5.00	"	50.0		130	67.9-124			
trans-1,3-Dichloropropene	64.9	5.00	"	50.0		130	63.6-124			
Ethylbenzene	47.8	5.00	"	50.0		95.6	60-141			
2-Hexanone	132	10.0	"	50.0		264	10-175			
Methylene chloride	37.0	5.00	"	50.0		74.0	28.4-149			
4-Methyl-2-pentanone	78.3	10.0	"	50.0		157	10-188			
Styrene	46.8	5.00	"	50.0		93.6	64.6-136			
1,1,2,2-Tetrachloroethane	61.9	5.00	"	50.0		124	68.4-137			
Tetrachloroethene	49.8	5.00	"	50.0		99.6	57.6-142			
Toluene	52.3	5.00	"	50.0		105	64.1-134			
1,1,1-Trichloroethane	63.5	5.00	"	50.0		127	60-134			
1,1,2-Trichloroethane	63.2	5.00	"	50.0		126	76.4-125			
Trichloroethene	54.6	5.00	"	50.0		109	61.8-132			
Trichlorofluoromethane	62.3	5.00	"	50.0		125	14.6-241			
Vinyl acetate	60.8	10.0	"	50.0		122	10-161			

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vine-Fricke-Recon
o30 Tollgate Rd., Suite D
Elgin IL, 60123

Project: 009-07992-00-003
Project Number: N/A
Project Manager: Bill Bow

Reported:
12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120330 - EPA 5035B [P/T]										
LCS (1120330-BS1)				Prepared: 12/18/01		Analyzed: 12/17/01				
Vinyl chloride	49.6	5.00	ug/kg wet	50.0		99.2	57.9-143			
Total Xylenes	135	5.00	"	150		90.0	60-141			
Surrogate: Dibromofluoromethane	*54.9*		"	*50.0*		*110*	*81.2-134*			
Surrogate: 1,2-Dichloroethane-d4	*72.8*		"	*50.0*		*146*	*50.8-145*			
Surrogate: Toluene-d8	*52.5*		"	*50.0*		*105*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*53.9*		"	*50.0*		*108*	*76.8-113*			
LCS Dup (1120330-BSD1)				Prepared: 12/18/01		Analyzed: 12/17/01				
Acetone	174	25.0	ug/kg wet	50.0		348	10-166	16.4	345	
Benzene	45.2	5.00	"	50.0		90.4	62.1-138	3.48	41.4	
Bromodichloromethane	68.2	5.00	"	50.0		136	64.3-125	1.74	42	
Bromoform	70.4	5.00	"	50.0		141	47.5-124	3.76	57.4	
Bromomethane	60.4	5.00	"	50.0		121	49.2-198	37.4	61.9	
' Butanone	103	10.0	"	50.0		206	10-214	12.7	173	
on disulfide	35.3	5.00	"	50.0		70.6	10-175	6.31	126	
Carbon tetrachloride	64.3	5.00	"	50.0		129	51.1-134	3.66	43.5	
Chlorobenzene	48.6	5.00	"	50.0		97.2	63.5-135	2.04	39	
Chlorodibromomethane	61.9	5.00	"	50.0		124	67.5-121	4.11	41.6	
Chloroethane	53.8	5.00	"	50.0		108	10-537	1.66	90.3	
Chloroform	58.1	5.00	"	50.0		116	69.2-124	2.21	43.5	
Chloromethane	33.2	5.00	"	50.0		66.4	67.4-162	21.5	71.8	
1,1-Dichloroethane	45.8	5.00	"	50.0		91.6	63-127	12.0	41.8	
1,2-Dichloroethane	78.5	5.00	"	50.0		157	57.5-125	3.38	68.6	
1,1-Dichloroethene	42.2	5.00	"	50.0		84.4	59.9-129	14.7	47.5	
cis-1,2-Dichloroethene	47.5	5.00	"	50.0		95.0	64.4-137	3.31	39.3	
trans-1,2-Dichloroethene	41.6	5.00	"	50.0		83.2	59-136	6.74	43	
1,2-Dichloropropane	47.3	5.00	"	50.0		94.6	66.3-132	3.73	38.1	
cis-1,3-Dichloropropene	61.6	5.00	"	50.0		123	67.9-124	5.22	41.5	
trans-1,3-Dichloropropene	61.6	5.00	"	50.0		123	63.6-124	5.22	57.2	
Ethylbenzene	46.4	5.00	"	50.0		92.8	60-141	2.97	42.7	
2-Hexanone	116	10.0	"	50.0		232	10-175	12.9	128	
Methylene chloride	30.0	5.00	"	50.0		60.0	28.4-149	20.9	67.4	
4-Methyl-2-pentanone	72.4	10.0	"	50.0		145	10-188	7.83	119	
Styrene	46.1	5.00	"	50.0		92.2	64.6-136	1.51	37.2	
1,1,2,2-Tetrachloroethane	57.5	5.00	"	50.0		115	68.4-137	7.37	54.6	
Tetrachloroethene	47.6	5.00	"	50.0		95.2	57.6-142	4.52	46.3	
Toluene	50.6	5.00	"	50.0		101	64.1-134	3.30	42.6	
1,1,1-Trichloroethane	60.2	5.00	"	50.0		120	60-134	5.34	44.2	

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;ine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120330 - EPA 5035B [P/T]										
LCS Dup (1120330-BSD1)				Prepared: 12/18/01		Analyzed: 12/17/01				
1,1,2-Trichloroethane	60.8	5.00	ug/kg wet	50.0		122	76.4-125	3.87	53.2	
Trichloroethene	53.2	5.00	"	50.0		106	61.8-132	2.60	43.5	
Trichlorofluoromethane	62.7	5.00	"	50.0		125	14.6-241	0.640	115	
Vinyl acetate	56.7	10.0	"	50.0		113	10-161	6.98	92.1	
Vinyl chloride	44.8	5.00	"	50.0		89.6	57.9-143	10.2	81	
Total Xylenes	133	5.00	"	150		88.7	60-141	1.49	40.1	
Surrogate: Dibromofluoromethane	*54.9*		"	*50.0*		*110*	*81.2-134*			
Surrogate: 1,2-Dichloroethane-d4	*73.9*		"	*50.0*		*148*	*50.8-145*			
Surrogate: Toluene-d8	*53.3*		"	*50.0*		*107*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*54.2*		"	*50.0*		*108*	*76.8-113*			

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Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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vine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Blank (1120352-BLK1)				Prepared: 12/18/01 Analyzed: 12/19/01						
Acenaphthene	ND	100	ug/kg wet							
Acenaphthylene	ND	100	"							
Aniline	ND	100	"							
Anthracene	ND	100	"							
Benzoic acid	ND	500	"							
Benz (a) anthracene	ND	100	"							
Benzo (a) pyrene	ND	58.0	"							
Benzo (b) fluoranthene	ND	100	"							
Benzo (ghi) perylene	ND	100	"							
Benzo (k) fluoranthene	ND	100	"							
Benzyl alcohol	ND	100	"							
Bis(2-chloroethoxy)methane	ND	100	"							
Bis(2-chloroethyl)ether	ND	100	"							
(2-chloroisopropyl)ether	ND	100	"							
(2-ethylhexyl)phthalate	ND	330	"							
4-Bromophenyl phenyl ether	ND	100	"							
Butyl benzyl phthalate	ND	100	"							
4-Chloroaniline	ND	100	"							
4-Chloro-3-methylphenol	ND	100	"							
2-Chloronaphthalene	ND	100	"							
2-Chlorophenol	ND	100	"							
4-Chlorophenyl phenyl ether	ND	100	"							
Chrysene	ND	100	"							
Dibenz (a,h) anthracene	ND	58.0	"							
Dibenzofuran	ND	100	"							
1,2-Dichlorobenzene	ND	100	"							
1,3-Dichlorobenzene	ND	100	"							
1,4-Dichlorobenzene	ND	100	"							
3,3'-Dichlorobenzidine	ND	500	"							
2,4-Dichlorophenol	ND	100	"							
Diethyl phthalate	ND	100	"							
2,4-Dimethylphenol	ND	100	"							
Dimethyl phthalate	ND	100	"							
Di-n-butyl phthalate	ND	330	"							
4,6-Dinitro-2-methylphenol	ND	500	"							
2,4-Dinitrophenol	ND	500	"							
2,4-Dinitrotoluene	ND	100	"							
2,6-Dinitrotoluene	ND	100	"							

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vine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Blank (1120352-BLK1)				Prepared: 12/18/01 Analyzed: 12/19/01						
Di-n-octyl phthalate	ND	100	ug/kg wet							
Fluoranthene	ND	100	"							
Fluorene	ND	100	"							
Hexachlorobenzene	ND	100	"							
Hexachlorobutadiene	ND	100	"							
Hexachlorocyclopentadiene	ND	100	"							
Hexachloroethane	ND	100	"							
Indeno (1,2,3-cd) pyrene	ND	100	"							
Isophorone	ND	100	"							
2-Methylnaphthalene	ND	100	"							
o-Cresol	ND	100	"							
m,p-Cresols	ND	100	"							
Naphthalene	ND	100	"							
'troaniline	ND	500	"							
,troaniline	ND	500	"							
4-Nitroaniline	ND	500	"							
Nitrobenzene	ND	100	"							
2-Nitrophenol	ND	100	"							
4-Nitrophenol	ND	500	"							
N-Nitrosodi-n-propylamine	ND	100	"							
N-Nitrosodiphenylamine	ND	100	"							
Pentachlorophenol	ND	500	"							
Phenanthrene	ND	100	"							
Phenol	ND	100	"							
Pyrene	ND	100	"							
1,2,4-Trichlorobenzene	ND	100	"							
2,4,5-Trichlorophenol	ND	500	"							
2,4,6-Trichlorophenol	ND	100	"							
Surrogate: 2-Fluorophenol	*1820*		"	*3370*		*54.0*	*10-109*			
Surrogate: Phenol-d6	*2040*		"	*3370*		*60.5*	*10-115*			
Surrogate: Nitrobenzene-d5	*1040*		"	*1690*		*61.5*	*10-114*			
Surrogate: 2-Fluorobiphenyl	*1050*		"	*1690*		*62.1*	*10-106*			
Surrogate: 2,4,6-Tribromophenol	*1720*		"	*3370*		*51.0*	*19.3-88.7*			
Surrogate: p-Terphenyl-d14	*1230*		"	*1690*		*72.8*	*10-126*			

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vine-Fricke-Recon
o30 Tollgate Rd., Suite D
Elgin IL, 60123

Project: 009-07992-00-003
Project Number: N/A
Project Manager: Bill Bow

Reported:
12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
LCS (1120352-BS1)				Prepared: 12/18/01		Analyzed: 12/19/01				
Acenaphthene	1390	100	ug/kg wet	1700		81.8	29.4-110			
Acenaphthylene	1350	100	"	1700		79.4	31-110			
Aniline	140	100	"	1700		8.24	5-110			
Anthracene	1280	100	"	1700		75.3	32.9-110			
Benzoic acid	246	50.0	"	1700		14.5	5-110			
Benz (a) anthracene	1320	100	"	1700		77.6	35.9-110			
Benzo (a) pyrene	1530	58.0	"	1700		90.0	40.3-110			
Benzo (b) fluoranthene	1730	100	"	1700		102	41.9-110			
Benzo (ghi) perylene	1510	100	"	1700		88.8	15-110			
Benzo (k) fluoranthene	1650	100	"	1700		97.1	39.6-110			
Benzyl alcohol	1400	100	"	1700		82.4	29.1-110			
Bis(2-chloroethoxy)methane	1250	100	"	1700		73.5	27.8-110			
Bis(2-chloroethyl)ether	1320	100	"	1700		77.6	10.8-110			
'2-chloroisopropyl)ether	1400	100	"	1700		82.4	16.5-110			
,2-ethylhexyl)phthalate	1800	330	"	1700		106	5-131			
4-Bromophenyl phenyl ether	1310	100	"	1700		77.1	32.6-110			
Butyl benzyl phthalate	1630	100	"	1700		95.9	5-159			
4-Chloroaniline	305	100	"	1700		17.9	5-110			
4-Chloro-3-methylphenol	1330	100	"	1700		78.2	33.5-110			
2-Chloronaphthalene	1380	100	"	1700		81.2	17-110			
2-Chlorophenol	1350	100	"	1700		79.4	30.6-110			
4-Chlorophenyl phenyl ether	1530	100	"	1700		90.0	15.2-110			
Chrysene	1120	100	"	1700		65.9	36.1-110			
Dibenz (a,h) anthracene	989	58.0	"	1700		58.2	30.5-110			
Dibenzofuran	1400	100	"	1700		82.4	15.3-110			
1,2-Dichlorobenzene	1330	100	"	1700		78.2	15.6-110			
1,3-Dichlorobenzene	1310	100	"	1700		77.1	16.2-110			
1,4-Dichlorobenzene	1330	100	"	1700		78.2	16.3-110			
3,3'-Dichlorobenzidine	364	50.0	"	1700		21.4	5-110			
2,4-Dichlorophenol	1240	100	"	1700		72.9	16.9-110			
Diethyl phthalate	1390	100	"	1700		81.8	15.8-110			
2,4-Dimethylphenol	1320	100	"	1700		77.6	16.1-110			
Dimethyl phthalate	1390	100	"	1700		81.8	15.3-110			
Di-n-butyl phthalate	1310	330	"	1700		77.1	32-110			
4,6-Dinitro-2-methylphenol	1210	500	"	1700		71.2	6.14-110			
2,4-Dinitrophenol	1110	500	"	1700		65.3	5-110			
2,4-Dinitrotoluene	1480	100	"	1700		87.1	32.1-110			
2,6-Dinitrotoluene	1410	100	"	1700		82.9	34.2-110			

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Andy Johnson, Project Manager

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·ine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
LCS (1120352-BS1)				Prepared: 12/18/01		Analyzed: 12/19/01				
Di-n-octyl phthalate	1560	100	ug/kg wet	1700		91.8	5-124			
Fluoranthene	1340	100	"	1700		78.8	15-110			
Fluorene	1460	100	"	1700		85.9	30.1-110			
Hexachlorobenzene	1310	100	"	1700		77.1	31.8-110			
Hexachlorobutadiene	1270	100	"	1700		74.7	11.1-110			
Hexachlorocyclopentadiene	1250	100	"	1700		73.5	7.46-110			
Hexachloroethane	1310	100	"	1700		77.1	10.6-110			
Indeno (1,2,3-cd) pyrene	1430	100	"	1700		84.1	11.3-118			
Isophorone	1270	100	"	1700		74.7	28-110			
2-Methylnaphthalene	1290	100	"	1700		75.9	31.8-110			
o-Cresol	1400	100	"	1700		82.4	20.3-110			
m,p-Cresols	1400	100	"	1700		82.4	5-110			
Naphthalene	1230	100	"	1700		72.4	27-110			
'troaniline	1390	500	"	1700		81.8	12-110			
.troaniline	955	500	"	1700		56.2	5-110			
4-Nitroaniline	1160	500	"	1700		68.2	5-110			
Nitrobenzene	1280	100	"	1700		75.3	27.3-110			
2-Nitrophenol	1180	100	"	1700		69.4	29.7-110			
4-Nitrophenol	1380	500	"	1700		81.2	10.4-110			
N-Nitrosodi-n-propylamine	1460	100	"	1700		85.9	32.4-110			
N-Nitrosodiphenylamine	1250	100	"	1700		73.5	31.2-110			
Pentachlorophenol	1090	500	"	1700		64.1	5-110			
Phenanthrene	1370	100	"	1700		80.6	35.4-110			
Phenol	1330	100	"	1700		78.2	15.8-110			
Pyrene	1580	100	"	1700		92.9	5-166			
1,2,4-Trichlorobenzene	1270	100	"	1700		74.7	14.3-110			
2,4,5-Trichlorophenol	1340	500	"	1700		78.8	14.3-110			
2,4,6-Trichlorophenol	1420	100	"	1700		83.5	30.9-110			
Surrogate: 2-Fluorophenol	*2450*		"	*3390*		*72.3*	*10-109*			
Surrogate: Phenol-d6	*2560*		"	*3390*		*75.5*	*10-115*			
Surrogate: Nitrobenzene-d5	*1270*		"	*1700*		*74.7*	*10-114*			
Surrogate: 2-Fluorobiphenyl	*1370*		"	*1700*		*80.6*	*10-106*			
Surrogate: 2,4,6-Tribromophenol	*2320*		"	*3390*		*68.4*	*19.3-88.7*			
Surrogate: p-Terphenyl-d14	*1570*		"	*1700*		*92.4*	*10-126*			

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vine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Matrix Spike (1120352-MS1)		**Source: B112255-03**		Prepared: 12/18/01		Analyzed: 12/20/01				
Acenaphthene	1130	117	ug/kg dry	1990	ND	56.8	5-140			
Acenaphthylene	1080	117	"	1990	ND	54.3	5-131			
Aniline	681	117	"	1990	ND	34.2	5-110			
Anthracene	1050	117	"	1990	ND	50.6	5-146			
Benzoic acid	739	587	"	1990	ND	37.1	5-149			
Benz (a) anthracene	1150	117	"	1990	131	51.2	5-149			
Benzo (a) pyrene	1090	68.1	"	1990	112	49.1	5-134			
Benzo (b) fluoranthene	1000	117	"	1990	214	39.5	5-127			
Benzo (ghi) perylene	3510	117	"	1990	ND	176	5-223			
Benzo (k) fluoranthene	897	117	"	1990	ND	39.2	5-120			
Benzyl alcohol	1150	117	"	1990	ND	57.8	8.91-110			
Bis(2-chloroethoxy)methane	1040	117	"	1990	ND	52.3	23.1-110			
Bis(2-chloroethyl)ether	1080	117	"	1990	ND	54.3	16.6-110			
2-chloroisopropyl)ether	1180	117	"	1990	ND	59.3	14.5-110			
2-ethylhexyl)phthalate	1760	387	"	1990	ND	88.4	5-153			
4-Bromophenyl phenyl ether	1160	117	"	1990	ND	58.3	5-152			
Butyl benzyl phthalate	2290	117	"	1990	ND	115	5-216			
4-Chloroaniline	457	117	"	1990	ND	23.0	5-110			
4-Chloro-3-methylphenol	1150	117	"	1990	ND	57.8	17.8-110			
2-Chloronaphthalene	1120	117	"	1990	ND	56.3	5-117			
2-Chlorophenol	1140	117	"	1990	ND	57.3	5.03-128			
4-Chlorophenyl phenyl ether	1210	117	"	1990	ND	60.8	5-110			
Chrysene	908	117	"	1990	130	39.1	5-155			
Dibenz (a,h) anthracene	1850	68.1	"	1990	ND	93.0	5-164			
Dibenzofuran	1120	117	"	1990	ND	56.3	5-133			
1,2-Dichlorobenzene	1070	117	"	1990	ND	53.8	5-117			
1,3-Dichlorobenzene	1030	117	"	1990	ND	51.8	5-110			
1,4-Dichlorobenzene	1050	117	"	1990	ND	52.8	5-110			
3,3'-Dichlorobenzidine	563	58.7	"	1990	ND	28.3	5-110			
2,4-Dichlorophenol	1090	117	"	1990	ND	54.8	21.5-110			
Diethyl phthalate	1090	117	"	1990	ND	54.8	5-112			
2,4-Dimethylphenol	1100	117	"	1990	ND	55.3	5-122			
Dimethyl phthalate	1130	117	"	1990	ND	56.8	14.4-114			
Di-n-butyl phthalate	1050	387	"	1990	ND	52.8	5-117			
4,6-Dinitro-2-methylphenol	1220	587	"	1990	ND	61.3	5-126			
2,4-Dinitrophenol	1190	587	"	1990	ND	59.8	5-140			
2,4-Dinitrotoluene	1170	117	"	1990	ND	58.8	16.2-110			
2,6-Dinitrotoluene	1150	117	"	1990	ND	57.8	5-135			

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vine-Fricke-Recon	Project: 009-07992-00-003	
630 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Matrix Spike (1120352-MS1)		**Source: B112255-03**		Prepared: 12/18/01		Analyzed: 12/20/01				
Di-n-octyl phthalate	1240	117	ug/kg dry	1990	ND	62.3	5-170			
Fluoranthene	849	117	"	1990	294	27.9	5-110			
Fluorene	1160	117	"	1990	ND	58.3	5-130			
Hexachlorobenzene	1100	117	"	1990	ND	55.3	5-117			
Hexachlorobutadiene	1020	117	"	1990	ND	51.3	5-110			
Hexachlorocyclopentadiene	964	117	"	1990	ND	48.4	5-110			
Hexachloroethane	1050	117	"	1990	ND	52.8	5-110			
Indeno (1,2,3-cd) pyrene	3010	117	"	1990	ND	151	5-169			
Isophorone	1060	117	"	1990	ND	53.3	23.1-110			
2-Methylnaphthalene	1040	117	"	1990	ND	52.3	5-137			
o-Cresol	1160	117	"	1990	ND	58.3	5-128			
m,p-Cresols	1190	117	"	1990	ND	59.8	5-131			
Naphthalene	995	117	"	1990	ND	50.0	5-126			
·itroaniline	1160	587	"	1990	ND	58.3	18.1-110			
.itroaniline	754	587	"	1990	ND	37.9	5-110			
4-Nitroaniline	779	587	"	1990	ND	39.1	15.8-110			
Nitrobenzene	1040	117	"	1990	ND	52.3	14.4-110			
2-Nitrophenol	1080	117	"	1990	ND	54.3	5-120			
4-Nitrophenol	947	587	"	1990	ND	47.6	5-124			
N-Nitrosodi-n-propylamine	1230	117	"	1990	ND	61.8	23.2-110			
N-Nitrosodiphenylamine	1130	117	"	1990	ND	56.8	5-127			
Pentachlorophenol	1010	587	"	1990	ND	50.8	5-114			
Phenanthrene	1180	117	"	1990	179	50.3	5-137			
Phenol	1180	117	"	1990	ND	59.3	23.7-110			
Pyrene	3050	117	"	1990	301	138	5-402			
1,2,4-Trichlorobenzene	1020	117	"	1990	ND	51.3	5-110			
2,4,5-Trichlorophenol	1170	587	"	1990	ND	58.8	11.6-113			
2,4,6-Trichlorophenol	1330	117	"	1990	ND	66.8	18.8-110			
Surrogate: 2-Fluorophenol	*2050*		"	*3960*		*51.8*	*10-109*			
Surrogate: Phenol-d6	*2120*		"	*3960*		*53.5*	*10-115*			
Surrogate: Nitrobenzene-d5	*1010*		"	*1990*		*50.8*	*10-114*			
Surrogate: 2-Fluorobiphenyl	*1040*		"	*1990*		*52.3*	*10-106*			
Surrogate: 2,4,6-Tribromophenol	*2160*		"	*3960*		*54.5*	*19.3-88.7*			
Surrogate: p-Terphenyl-d14	*2550*		"	*1990*		*128*	*10-126*			

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vine-Fricke-Recon
030 Tollgate Rd., Suite D
Elgin IL, 60123

Project: 009-07992-00-003
Project Number: N/A
Project Manager: Bill Bow

Reported:
12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Matrix Spike Dup (1120352-MSD1)		**Source: B112255-03**		Prepared: 12/18/01		Analyzed: 12/20/01				
Acenaphthene	879	117	ug/kg dry	1950	ND	45.1	5-140	25.0	81.8	
Acenaphthylene	854	117	"	1950	ND	43.8	5-131	23.4	73	
Aniline	644	117	"	1950	ND	33.0	5-110	5.58	116	
Anthracene	826	117	"	1950	ND	40.1	5-146	23.9	98.1	
Benzoic acid	742	587	"	1950	ND	38.1	5-149	0.405	78.8	
Benz (a) anthracene	825	117	"	1950	131	35.6	5-149	32.9	124	
Benzo (a) pyrene	847	68.1	"	1950	112	37.7	5-134	25.1	124	
Benzo (b) fluoranthene	757	117	"	1950	214	27.8	5-127	27.7	121	
Benzo (ghi) perylene	2340	117	"	1950	ND	120	5-223	40.0	121	
Benzo (k) fluoranthene	748	117	"	1950	ND	32.4	5-120	18.1	107	
Benzyl alcohol	904	117	"	1950	ND	46.4	8.91-110	24.0	103	
Bis(2-chloroethoxy)methane	825	117	"	1950	ND	42.3	23.1-110	23.1	86	
Bis(2-chloroethyl)ether	859	117	"	1950	ND	44.1	16.6-110	22.8	83.4	
' '2-chloroisopropyl)ether	945	117	"	1950	ND	48.5	14.5-110	22.1	80.8	
2-ethylhexyl)phthalate	1580	387	"	1950	ND	81.0	5-153	10.8	115	
4-Bromophenyl phenyl ether	864	117	"	1950	ND	44.3	5-152	29.2	70.7	
Butyl benzyl phthalate	1970	117	"	1950	ND	101	5-216	15.0	92.3	
4-Chloroaniline	488	117	"	1950	ND	25.0	5-110	6.56	196	
4-Chloro-3-methylphenol	864	117	"	1950	ND	44.3	17.8-110	28.4	100	
2-Chloronaphthalene	880	117	"	1950	ND	45.1	5-117	24.0	77.7	
2-Chlorophenol	896	117	"	1950	ND	45.9	5.03-128	24.0	77.4	
4-Chlorophenyl phenyl ether	931	117	"	1950	ND	47.7	5-110	26.1	73	
Chrysene	681	117	"	1950	130	28.3	5-155	28.6	122	
Dibenz (a,h) anthracene	1290	68.1	"	1950	ND	66.2	5-164	35.7	105	
Dibenzofuran	870	117	"	1950	ND	44.6	5-133	25.1	76.2	
1,2-Dichlorobenzene	867	117	"	1950	ND	44.5	5-117	21.0	84.9	
1,3-Dichlorobenzene	844	117	"	1950	ND	43.3	5-110	19.9	84	
1,4-Dichlorobenzene	866	117	"	1950	ND	44.4	5-110	19.2	86.6	
3,3'-Dichlorobenzidine	612	587	"	1950	ND	31.4	5-110	8.34	146	
2,4-Dichlorophenol	827	117	"	1950	ND	42.4	21.5-110	27.4	81	
Diethyl phthalate	844	117	"	1950	ND	43 3	5-112	25.4	75.8	
2,4-Dimethylphenol	868	117	"	1950	ND	44.5	5-122	23.6	145	
Dimethyl phthalate	880	117	"	1950	ND	45.1	14.4-114	24.9	77.1	
Di-n-butyl phthalate	830	387	"	1950	ND	42.6	5-117	23.4	107	
4,6-Dinitro-2-methylphenol	826	587	"	1950	ND	42.4	5-126	38.5	97.4	
2,4-Dinitrophenol	846	587	"	1950	ND	43.4	5-140	33.8	25.6	
2,4-Dinitrotoluene	907	117	"	1950	ND	46.5	16.2-110	25.3	85.7	
2,6-Dinitrotoluene	906	117	"	1950	ND	46.5	5-135	23.7	89.6	

eat Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

vine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120352 - EPA 3550B										
Matrix Spike Dup (1120352-MSD1)		**Source: B112255-03**		Prepared: 12/18/01		Analyzed: 12/20/01				
Di-n-octyl phthalate	955	117	ug/kg dry	1950	ND	49.0	5-170	26.0	76.1	
Fluoranthene	709	117	"	1950	294	21.3	5-110	18.0	142	
Fluorene	904	117	"	1950	ND	46.4	5-130	24.8	79.5	
Hexachlorobenzene	831	117	"	1950	ND	42.6	5-117	27.9	79.5	
Hexachlorobutadiene	814	117	"	1950	ND	41.7	5-110	22.5	82	
Hexachlorocyclopentadiene	596	117	"	1950	ND	30.6	5-110	47.2	71.2	
Hexachloroethane	858	117	"	1950	ND	44.0	5-110	20.1	90.3	
Indeno (1,2,3-cd) pyrene	2000	117	"	1950	ND	103	5-169	40.3	107	
Isophorone	824	117	"	1950	ND	42.3	23.1-110	25.1	84.6	
2-Methylnaphthalene	817	117	"	1950	ND	41.9	5-137	24.0	71.7	
o-Cresol	907	117	"	1950	ND	46.5	5-128	24.5	86.1	
m,p-Cresols	923	117	"	1950	ND	47.3	5-131	25.3	92.8	
Naphthalene	797	117	"	1950	ND	40.9	5-126	22.1	75.6	
' 'itroaniline	900	587	"	1950	ND	46.2	18.1-110	25.2	89.3	
ıtroaniline	666	587	"	1950	ND	34.2	5-110	12.4	111	
4-Nitroaniline	725	587	"	1950	ND	37.2	15.8-110	7.18	99.9	
Nitrobenzene	835	117	"	1950	ND	42.8	14.4-110	21.9	84.2	
2-Nitrophenol	886	117	"	1950	ND	45.4	5-120	19.7	85.1	
4-Nitrophenol	967	587	"	1950	ND	49.6	5-124	2.09	55.2	
N-Nitrosodi-n-propylamine	967	117	"	1950	ND	49.6	23.2-110	23.9	93.5	
N-Nitrosodiphenylamine	829	117	"	1950	ND	42.5	5-127	30.7	74.3	
Pentachlorophenol	846	587	"	1950	ND	43.4	5-114	17.7	70.7	
Phenanthrene	878	117	"	1950	179	35.8	5-137	29.3	141	
Phenol	926	117	"	1950	ND	47.5	23.7-110	24.1	88	
Pyrene	2150	117	"	1950	301	94.8	5-402	34.6	157	
1,2,4-Trichlorobenzene	815	117	"	1950	ND	41.8	5-110	22.3	76.7	
2,4,5-Trichlorophenol	929	587	"	1950	ND	47.6	11.6-113	23.0	79.3	
2,4,6-Trichlorophenol	990	117	"	1950	ND	50.8	18.8-110	29.3	88.2	
Surrogate: 2-Fluorophenol	*1670*		"	*3890*		*42.9*	*10-109*			
Surrogate: Phenol-d6	*1690*		"	*3890*		*43.4*	*10-115*			
Surrogate: Nitrobenzene-d5	*821*		"	*1950*		*42.1*	*10-114*			
Surrogate: 2-Fluorobiphenyl	*863*		"	*1950*		*44.3*	*10-106*			
Surrogate: 2,4,6-Tribromophenol	*1680*		"	*3890*		*43.2*	*19.3-88.7*			
Surrogate: p-Terphenyl-d14	*2090*		"	*1950*		*107*	*10-126*			

eat Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

vine-Fricke-Recon	Project: 009-07992-00-003	
o30 Tollgate Rd., Suite D	Project Number: N/A	**Reported:**
Elgin IL, 60123	Project Manager: Bill Bow	12/20/01 16:17

Notes and Definitions

G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G3	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

eat Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
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Buffalo Grove, IL 60089-4505
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FAX (847) 808-7772

140 Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

CHAIN OF CUSTODY REPORT

Client: LFR Levine Fricke
Address: 630 Tollgate Rd, Suite D
Elgin IL 60123
Report to: Bill Bow
Phone #: 847 695 8855
Fax #: 847 695 7799

Bill To: Same
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: ON ICE
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 009-07992-00-003
Sampler: John Chitwood
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	ANALYSIS TYPE: VOC	SVOC	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	H-01147-2.4-4 PID:	12/13	1235	S							2	2	X	X			B112197-01
2	H-01148-2-2.8 PID:	12/13	1300	S							1		X				-02
3	PID:																
4	PID:																
5	PID:																
6	PID:																
7	PID:																
8	PID:																
9	PID:																
10	PID:																

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
John Chitwood 12/13/01	Cathy Sicht 12-13-01 15:37	DATE TIME	Cathy Sicht 12-13-01 16:18
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
		DATE TIME	DATE TIME

COMMENTS: Volatile Sample preserved in accordance Method 5030 A (EPA)

PAGE OF

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

June 20, 2002

Mr. Bill Bow
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: 009-07992-00-003
First Environmental File ID: 60791-800
Date Received: June 12, 2002

Dear Mr. Bow:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996.Specific method references are listed on the analytical report. Results have been expressed on a dry weight basis per method protocol.

NOTE: Some reporting limits have been elevated due to matrix interferences.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60791	Date Taken:	06/11/02
Sample Description:	02-01 (2-4')	Time Taken:	11:10
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	89.83	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	1.8	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60792	Date Taken:	06/11/02
Sample Description:	02-02 (4-6')	Time Taken:	11:30
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	82.34	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.0	mg/kg	

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IEPA Certification #100292

Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60793	Date Taken:	06/11/02
Sample Description:	02-03 (2-4')	Time Taken:	12:00
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	90.38	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 100	ug/kg	
Toluene	< 100	ug/kg	
Ethyl benzene	< 100	ug/kg	
Xylenes (total)	13,400	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	3.7	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60794	Date Taken:	06/11/02
Sample Description:	02-04 (5-7')	Time Taken:	13:00
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	84.20	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	4.9	mg/kg	

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IEPA Certification #100292

Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60795	Date Taken:	06/11/02
Sample Description:	*02-05 (5-7')*	Time Taken:	13:35
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	86.21	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	1.9	mg/kg	

First Environmental Laboratories, Inc.

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IEPA Certification #100292

Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60796	Date Taken:	06/11/02
Sample Description:	02-06 (3-5')	Time Taken:	14:10
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	93.73	%	
BTEX Method 5035/8260B			
Analysis Date: 06/18/02			
Benzene	< 2.0	ug/kg	
Toluene	5.1	ug/kg	
Ethyl benzene	357	ug/kg	
Xylenes (total)	702	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.5	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60797	Date Taken:	06/11/02
Sample Description:	02-07 (2-4')	Time Taken:	14:30
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	95.69	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.0	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60798	Date Taken:	06/11/02
Sample Description:	02-08 (2-4')	Time Taken:	14:45
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	92.69	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.1	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60799	Date Taken:	06/11/02
Sample Description:	02-09 (2-4')	Time Taken:	15:45
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	89.86	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.8	mg/kg	

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Analytical Report

Client:	LFR-Levine Fricke		
Project ID:	009-07992-00-003	Date Received:	06/12/02
Sample Number:	60800	Date Taken:	06/11/02
Sample Description:	02-11 (2-4')	Time Taken:	16:40
Lab File ID:	60791-00	Date Reported:	06/20/02

Analyte	Result	Units	Flags
Solids, Total	96.06	%	
BTEX Method 5035/8260B			
Analysis Date: 06/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Anlaysis Date: 06/18/02			
Lead	2.8	mg/kg	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine-Fricke
Street Address: 630 Tollgate Rd. Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Bill Bow
Sampled By: Wendy E Tesky

Project I.D.: 009-07992-00-003
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	BTEX	Lead (total)							Comments	Lab I.D.
6/11/02 - 1110	02-01 - 2'-4'	S	X	X								60791
1130	02-02 - 4'-6'											792
1200	02-03 - 2'-4'											793
1300	02-04 - 5'-7'											794
1335	02-05 - 5'-7'											795
1410	02-06 - 3'-5'											796
1430	02-07 - 2'-4'											797
1445	02-08 - 2'-4'											798
1545	02-09 - 2'-4'											799
1640	02-11 - 2'-4'											800

Cooler Temperature: Ice °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: Wendy E Tesky Date/Time 6/12/02 1130 Received By: _____ Date/Time 6-11-6/12/02 1130
Relinqu By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 1/01

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

July 8, 2002

Ms. Wendy Teskey
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: *JM-7992-00-001*
First Environmental File ID: 62061-63
Date Received: June 28, 2002

Dear Ms. Teskey:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the analytical report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

W. Mottashed

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client: LEVINE-FRICKE-RECON
Project ID: JM - 7992-00-001
Lab File ID: 62061-63

Date Received: 06/28/02
Date Reported: 07/08/02

BTEX Method 5030/8260B
Date Analyzed: 07/04-06/02

Sample #	Description	Date/Time Taken	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	(Total) Xylenes ug/L
62061	02-18	06/28/02 10:45	42.4	63,900	181	579
62062	02-16	06/28/02 11:20	<5.0	<5.0	98.2	109
62063	02-15	06/28/02 11:30	<5.0	<5.0	<5.0	147

CHAIN OF CU ODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine-Fricke
Street Address: 630 Tollgate Road, Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 x112 Fax: 847-695-7799
Send Report To: Wendy Taskey
Sampled By: Wendy Taskey

Project I.D.: JM-7992-00-001
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses: BTEX

Date/Time Taken	Sample Description	Matrix	BTEX								Comments	Lab I.D.
6/28/02 1045	02-18	W	X									62061
↓ 1120	02-16	↓	X									062
↓ 1130	02-15	↓	X									063

Cooler Temperature: 4.0 °C
Received within 6 hrs. of collection: ✓

Notes and Special Instructions:

Relinquished By: [signature] Date/Time 6/28/02 1330 Received By: [signature] Date/Time 6/28/02 1330
Relinquished By: Date/Time Received By: Date/Time

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July 17, 2002

Ms. Wendy Teskey
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: JM-009-07992-00-001
First Environmental File ID: 62817-31
Date Received: July 10, 2002

Dear Ms. Teskey:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the analytical report. Results for the soil samples have been expressed on a dry weight basis per method protocol.

NOTE: Some reporting limits have been elevated due to matrix interferences.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62817	Date Taken:	07/09/02
Sample Description:	T27-S	Time Taken:	13:30
Lab File ID:	62817-31	Date Reported:	07/22/02

Analyte	Result	Units	Flags
Solids, Total	82.88	%	
BTEX Method 5035/8260B			
Analysis Date: 07/12/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/19/02			
Lead	3.7	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62818	Date Taken:	07/09/02
Sample Description:	T27-E	Time Taken:	13:33
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	78.80	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/12/02			
Lead	10.5	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62819	Date Taken:	07/09/02
Sample Description:	T27-W	Time Taken:	13:39
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	80.93	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/12/02			
Lead	2.0	mg/kg	
Method D2974-87			
Analysis Date: 07/12/02			
FOC	0.33	%	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62820	Date Taken:	07/09/02
Sample Description:	T27-N	Time Taken:	13:42
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	93.20	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/12/02			
Lead	12.5	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62821	Date Taken:	07/09/02
Sample Description:	T27	Time Taken:	13:45
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
BTEX Method 5030B/8260B			
Analysis Date: 07/17/02			
Benzene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
Xylenes (total)	< 5.0	ug/L	
Metals Method 3010A/6010B			
Analysis Date: 07/12/02			
Lead	0.435	mg/L	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62822	Date Taken:	07/09/02
Sample Description:	T28-E	Time Taken:	14:17
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	94.67	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/15/02			
Lead	8.9	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62823	Date Taken:	07/09/02
Sample Description:	T28-W	Time Taken:	14:20
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	94.23	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/15/02			
Lead	7.2	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62824	Date Taken:	07/09/02
Sample Description:	T28-N	Time Taken:	14:23
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	94.74	%	
BTEX Method 5035/8260B			
Analysis Date: 07/13/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/15/02			
Lead	6.5	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62825	Date Taken:	07/09/02
Sample Description:	T28-S	Time Taken:	14:26
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	91.21	%	
BTEX Method 5035/8260B			
Analysis Date: 07/15/02			
Benzene	< 2.0	ug/kg	
Toluene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	
Metals Method 3050B/6010B			
Analysis Date: 07/12/02			
Lead	19.3	mg/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62826	Date Taken:	07/09/02
Sample Description:	T28	Time Taken:	14:30
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
BTEX Method 5030B/8260B			
Analysis Date: 07/17/02			
Benzene	5.4	ug/L	
Toluene	< 5.0	ug/L	
Ethyl benzene	52.0	ug/L	
Xylenes (total)	34.4	ug/L	
Metals Method 3010A/6010B			
Analysis Date: 07/12/02			
Lead	0.863	mg/L	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62827	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-1	Time Taken:	16:20
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	89.89	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 07/13/02			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62827	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-1	Time Taken:	16:20
Lab File ID:	62817-31	Date Reported:	07/17/02

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 07/15/02
Analysis Date: 07/17/02

Analyte	Result	Units	Flags
Acenaphthene	< 990	ug/kg	
Acenaphthylene	< 990	ug/kg	
Anthracene	< 990	ug/kg	
Benzidine	< 990	ug/kg	
Benzo[a]anthracene	< 990	ug/kg	
Benzo[b]fluoranthene	< 990	ug/kg	
Benzo[k]fluoranthene	< 990	ug/kg	
Benzo[g,h,i]perylene	< 990	ug/kg	
Benzo[a]pyrene	270	ug/kg	
Benzoic Acid	< 990	ug/kg	
Benzyl alcohol	< 990	ug/kg	
bis(2-Chloroethoxy)methane	< 990	ug/kg	
bis(2-Chloroethyl)ether	< 990	ug/kg	
bis(2-chloroisopropyl)ether	< 990	ug/kg	
bis(2-Ethylhexyl)phthalate	< 990	ug/kg	
4-Bromophenyl-phenylether	< 990	ug/kg	
Butylbenzylphthalate	< 990	ug/kg	
Carbazole	< 990	ug/kg	
4-Chloroaniline	< 990	ug/kg	
4-Chloro-3-methylphenol	< 990	ug/kg	
2-Chloronaphthalene	< 990	ug/kg	
2-Chlorophenol	< 990	ug/kg	
4-Chlorophenyl-phenylether	< 990	ug/kg	
Chrysene	< 990	ug/kg	
Dibenz[a,h]anthracene	< 270	ug/kg	
Dibenzofuran	< 990	ug/kg	
1,2-Dichlorobenzene	< 990	ug/kg	
1,3-Dichlorobenzene	< 990	ug/kg	
1,4-Dichlorobenzene	< 990	ug/kg	
3,3'-Dichlorobenzidine	< 1,980	ug/kg	
2,4-Dichlorophenol	< 990	ug/kg	
Diethylphthalate	< 990	ug/kg	
2,4-Dimethylphenol	< 990	ug/kg	
Dimethylphthalate	< 990	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62827	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-1	Time Taken:	16:20
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Di-n-butylphthalate	< 990	ug/kg	
4,6-Dinitro-2-methylphenol	< 4,800	ug/kg	
2,4-Dinitrophenol	< 4,800	ug/kg	
2,4-Dinitrotoluene	< 750	ug/kg	
2,6-Dinitrotoluene	< 780	ug/kg	
Di-n-octylphthalate	< 990	ug/kg	
Fluoranthene	< 990	ug/kg	
Fluorene	< 990	ug/kg	
Hexachlorobenzene	< 990	ug/kg	
Hexachlorobutadiene	< 990	ug/kg	
Hexachlorocyclopentadiene	< 990	ug/kg	
Hexachloroethane	< 990	ug/kg	
Indeno[1,2,3-cd]pyrene	< 990	ug/kg	
Isophorone	< 990	ug/kg	
2-Methylnaphthalene	< 990	ug/kg	
2-Methylphenol	< 990	ug/kg	
3&4-Methylphenol	< 990	ug/kg	
Naphthalene	< 990	ug/kg	
2-Nitroaniline	< 4,800	ug/kg	
3-Nitroaniline	< 4,800	ug/kg	
4-Nitroaniline	< 4,800	ug/kg	
Nitrobenzene	< 780	ug/kg	
2-Nitrophenol	< 4,800	ug/kg	
4-Nitrophenol	< 4,800	ug/kg	
N-Nitrosodimethylamine	< 990	ug/kg	
N-Nitroso-di-n-propylamine	< 990	ug/kg	
n-Nitrosodiphenylamine	< 990	ug/kg	
Pentachlorophenol	< 4,800	ug/kg	
Phenanthrene	< 990	ug/kg	
Phenol	< 990	ug/kg	
Pyrene	< 990	ug/kg	
1,2,4-Trichlorobenzene	< 990	ug/kg	
2,4,5-Trichlorophenol	< 1,980	ug/kg	
2,4,6-Trichlorophenol	< 990	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62828	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-2	Time Taken:	16:25
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	93.89	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 07/13/02			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62828	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-2	Time Taken:	16:25
Lab File ID:	62817-31	Date Reported:	07/17/02

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 07/15/02
Analysis Date: 07/17/02

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 90	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
Carbazole	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 90	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	
Dimethylphthalate	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62828	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-2	Time Taken:	16:25
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 250	ug/kg	
2,6-Dinitrotoluene	< 260	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 260	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 330	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

First Environmental Laboratories, Inc.

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IEPA Certification #100292

Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62829	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-3	Time Taken:	16:30
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	96.59	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 07/13/02			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62829	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-3	Time Taken:	16:30
Lab File ID:	62817-31	Date Reported:	07/17/02

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 07/15/02
Analysis Date: 07/17/02

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 90	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
Carbazole	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 90	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	
Dimethylphthalate	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62829	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-3	Time Taken:	16:30
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 250	ug/kg	
2,6-Dinitrotoluene	< 260	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 260	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 330	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62830	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-4	Time Taken:	16:35
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	94.29	%	
Volatile Organic Compounds Method 5035/8260B			
Analysis Date: 07/13/02			
Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62830	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-4	Time Taken:	16:35
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Base-Neutral/Acid Compounds Method 3540C/8270C			
Preparation Date: 07/15/02			
Analysis Date: 07/17/02			
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 90	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
Carbazole	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 90	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	
Dimethylphthalate	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62830	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-4	Time Taken:	16:35
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 250	ug/kg	
2,6-Dinitrotoluene	< 260	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 260	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 330	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62831	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-5	Time Taken:	16:40
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Solids, Total	95.27	%	

Volatile Organic Compounds Method 5035/8260B
Analysis Date: 07/13/02

Acetone	< 10.0	ug/kg	
Benzene	< 5.0	ug/kg	
Bromodichloromethane	< 5.0	ug/kg	
Bromoform	< 5.0	ug/kg	
Bromomethane	< 10.0	ug/kg	
2-Butanone	< 10.0	ug/kg	
Carbon disulfide	< 5.0	ug/kg	
Carbon tetrachloride	< 5.0	ug/kg	
Chlorobenzene	< 5.0	ug/kg	
Chlorodibromomethane	< 5.0	ug/kg	
Chloroethane	< 10.0	ug/kg	
Chloroform	< 5.0	ug/kg	
Chloromethane	< 10.0	ug/kg	
1,1-Dichloroethane	< 5.0	ug/kg	
1,2-Dichloroethane	< 5.0	ug/kg	
1,1-Dichloroethene	< 5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	ug/kg	
1,2-Dichloropropane	< 5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	ug/kg	
Ethyl benzene	< 5.0	ug/kg	
2-Hexanone	< 10.0	ug/kg	
4-Methyl-2-pentanone	< 10.0	ug/kg	
Methylene chloride	< 5.0	ug/kg	
Styrene	< 5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 10.0	ug/kg	
Vinyl Chloride	< 10.0	ug/kg	
Xylenes (total)	< 5.0	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62831	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-5	Time Taken:	16:40
Lab File ID:	62817-31	Date Reported:	07/17/02

Base-Neutral/Acid Compounds Method 3540C/8270C
Preparation Date: 07/15/02
Analysis Date: 07/17/02

Analyte	Result	Units	Flags
Acenaphthene	< 330	ug/kg	
Acenaphthylene	< 330	ug/kg	
Anthracene	< 330	ug/kg	
Benzidine	< 330	ug/kg	
Benzo[a]anthracene	< 330	ug/kg	
Benzo[b]fluoranthene	< 330	ug/kg	
Benzo[k]fluoranthene	< 330	ug/kg	
Benzo[g,h,i]perylene	< 330	ug/kg	
Benzo[a]pyrene	< 90	ug/kg	
Benzoic Acid	< 330	ug/kg	
Benzyl alcohol	< 330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	ug/kg	
bis(2-Chloroethyl)ether	< 330	ug/kg	
bis(2-chloroisopropyl)ether	< 330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	ug/kg	
4-Bromophenyl-phenylether	< 330	ug/kg	
Butylbenzylphthalate	< 330	ug/kg	
Carbazole	< 330	ug/kg	
4-Chloroaniline	< 330	ug/kg	
4-Chloro-3-methylphenol	< 330	ug/kg	
2-Chloronaphthalene	< 330	ug/kg	
2-Chlorophenol	< 330	ug/kg	
4-Chlorophenyl-phenylether	< 330	ug/kg	
Chrysene	< 330	ug/kg	
Dibenz[a,h]anthracene	< 90	ug/kg	
Dibenzofuran	< 330	ug/kg	
1,2-Dichlorobenzene	< 330	ug/kg	
1,3-Dichlorobenzene	< 330	ug/kg	
1,4-Dichlorobenzene	< 330	ug/kg	
3,3'-Dichlorobenzidine	< 660	ug/kg	
2,4-Dichlorophenol	< 330	ug/kg	
Diethylphthalate	< 330	ug/kg	
2,4-Dimethylphenol	< 330	ug/kg	
Dimethylphthalate	< 330	ug/kg	

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Analytical Report

Client:	LFR LEVINE FRICKE		
Project ID:	JM-009-07992-00-001	Date Received:	07/10/02
Sample Number:	62831	Date Taken:	07/09/02
Sample Description:	Exc. 4, P-5	Time Taken:	16:40
Lab File ID:	62817-31	Date Reported:	07/17/02

Analyte	Result	Units	Flags
Di-n-butylphthalate	< 330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	ug/kg	
2,4-Dinitrophenol	< 1,600	ug/kg	
2,4-Dinitrotoluene	< 250	ug/kg	
2,6-Dinitrotoluene	< 260	ug/kg	
Di-n-octylphthalate	< 330	ug/kg	
Fluoranthene	< 330	ug/kg	
Fluorene	< 330	ug/kg	
Hexachlorobenzene	< 330	ug/kg	
Hexachlorobutadiene	< 330	ug/kg	
Hexachlorocyclopentadiene	< 330	ug/kg	
Hexachloroethane	< 330	ug/kg	
Indeno[1,2,3-cd]pyrene	< 330	ug/kg	
Isophorone	< 330	ug/kg	
2-Methylnaphthalene	< 330	ug/kg	
2-Methylphenol	< 330	ug/kg	
3&4-Methylphenol	< 330	ug/kg	
Naphthalene	< 330	ug/kg	
2-Nitroaniline	< 1,600	ug/kg	
3-Nitroaniline	< 1,600	ug/kg	
4-Nitroaniline	< 1,600	ug/kg	
Nitrobenzene	< 260	ug/kg	
2-Nitrophenol	< 1,600	ug/kg	
4-Nitrophenol	< 1,600	ug/kg	
N-Nitrosodimethylamine	< 330	ug/kg	
N-Nitroso-di-n-propylamine	< 330	ug/kg	
n-Nitrosodiphenylamine	< 330	ug/kg	
Pentachlorophenol	< 330	ug/kg	
Phenanthrene	< 330	ug/kg	
Phenol	< 330	ug/kg	
Pyrene	< 330	ug/kg	
1,2,4-Trichlorobenzene	< 330	ug/kg	
2,4,5-Trichlorophenol	< 660	ug/kg	
2,4,6-Trichlorophenol	< 330	ug/kg	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine-Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7779
Send Report To: Wendy Teskey
Sampled By: Wendy Teskey

Project I.D.: JM-009-07992-00-001
P.O. #:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	BTEX 8260	Lead (total)	VOCs 8260B	SVOCs 8270C	TOC				Comments	Lab I.D.
7/9/02 1330	T27-S	S	X	X								62817
1333	T27-E											818
1339	T27-W						X					819
1342	T27-N	S										820
1345	T27	W										821
1417	T28-E	S										822
1420	T28-W											823
1423	T28-N											824
1426	T28-S	S										825
1430	T28	W										826
1620	EXC. 4, P-1	S			X	X						827
1625	EXC. 4, P-2	S			X	X						828

Cooler Temperature: Ice °C 4
Received within 6 hrs. of collection:

Notes and Special Instructions:

Relinquished By: W Teskey Date/Time 7/10/02 1345 Received By: Date/Time 7/10/02 1345
Relinquished By: Date/Time Received By: Date/Time

Rev. 1/01

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine-Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Wendy Teskey
Sampled By: Wendy Teskey

Project I.D.: JM-009-07992-00-001
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	BETX 8260	Lead, total	VOCs 8260B	SVOCs 8270C					Comments	Lab I.D.
7/9/02 1630	EXC. 4, P-3	S			X	X						62829
1635	EXC. 4, P-4	S			X	X						830
1640	EXC. 4, P-5	S			X	X						831

Cooler Temperature: ICE °C 4
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: W Teskey Date/Time 7/10/02 Received By: [signature] Date/Time 7/10/02 1345
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 1/01

First Environmental Laboratories, Inc.
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August 9, 2002

Ms. Wendy Teskey
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: JM-009-07992-00
First Environmental File ID: 64490-99
Date Received: August 2, 2002

Dear Ms. Teskey:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the analytical report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

First Environmental Laboratories, Inc.

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64490	Date Taken:	08/01/02
Sample Description:	UMW-08	Time Taken:	8:20
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	< 0.002	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64490	Date Taken:	08/01/02
Sample Description:	UMW-08	Time Taken:	8:20
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 08/07/02			
Acetone	< 10.0	ug/L	
Benzene	2,280	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64491	Date Taken:	08/01/02
Sample Description:	*UMW-02A*	Time Taken:	8:55
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	< 0.002	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64491	Date Taken:	08/01/02
Sample Description:	UMW-02A	Time Taken:	8:55
Lab File ID:	64490-99	Date Reported:	08/09/02

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 08/07/02

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64492	Date Taken:	08/01/02
Sample Description:	UMW-09	Time Taken:	9:37
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	0.027	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64492	Date Taken:	08/01/02
Sample Description:	UMW-09	Time Taken:	9:37
Lab File ID:	64490-99	Date Reported:	08/09/02

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 08/07/02

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	2,820	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	562	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	8,960	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	1,890	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64493	Date Taken:	08/01/02
Sample Description:	UMW-01A	Time Taken:	10:12
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	< 0.002	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64493	Date Taken:	08/01/02
Sample Description:	UMW-01A	Time Taken:	10:12
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 08/07/02			
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64494	Date Taken:	08/01/02
Sample Description:	UMW-26	Time Taken:	11:18
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	< 0.002	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64494	Date Taken:	08/01/02
Sample Description:	UMW-26	Time Taken:	11:18
Lab File ID:	64490-99	Date Reported:	08/09/02

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 08/07/02

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	3,480	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	518	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	106	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	811	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64495	Date Taken:	08/01/02
Sample Description:	UMW-10	Time Taken:	12:02
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Metals Method 3010A/6010B			
Analysis Date: 08/09/02			
Lead	0.003	mg/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64495	Date Taken:	08/01/02
Sample Description:	UMW-10	Time Taken:	12:02
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 08/07/02			
Acetone	< 10.0	ug/L	
Benzene	511	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	1,150	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	2,130	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	3,460	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64496	Date Taken:	08/01/02
Sample Description:	UMW-29	Time Taken:	14:02
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 08/07/02			
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64497	Date Taken:	08/01/02
Sample Description:	UMW-27	Time Taken:	15:06
Lab File ID:	64490-99	Date Reported:	08/09/02

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 08/07/02

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	9.8	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64498	Date Taken:	08/01/02
Sample Description:	UMW-30	Time Taken:	15:51
Lab File ID:	64490-99	Date Reported:	08/09/02

Analyte	Result	Units	Flags
Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 08/07-09/02			
Acetone	132	ug/L	
Benzene	115	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	1,080	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	207,000	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	1,970	ug/L	

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Analytical Report

Client:	LFR-LEVINE FRICKE		
Project ID:	JM-009-07992-00	Date Received:	08/02/02
Sample Number:	64499	Date Taken:	N/A
Sample Description:	Trip Blank	Time Taken:	N/A
Lab File ID:	64490-99	Date Reported:	08/09/02

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 08/07/02

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

CHAIN OF C TODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine-Fricke
Street Address: 630 Tollgate Rd. Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Wendy Teskey
Sampled By: Wendy Teskey

Project I.D.: JM-009-07992-00
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	VOC 8260	Total Lead							Comments	Lab I.D.
8/1/02 0820	UMW-08	W	X	X								64490
0855	UMW-02A											91
0937	UMW-09											92
1012	UMW-01A											93
1118	UMW-26			X								94
1202	UMW-10			X								95
1402	UMW-29											96
1506	UMW-27											97
1551	UMW-30	X	X									98
	Trip Blank	W	X									99

Cooler Temperature: 5.6 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: W Teskey Date/Time 8/2/02 -930 Received By: [signature] Date/Time 8/2/02 0930
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

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September 10, 2002

Ms. Wendy Teskey
LEVINE-FRICKE-RECON
630 Tollgate Road
Suite D
Elgin, IL 60123-9364

Project ID: JM 009-07992-00
First Environmental File ID: 67051-52
Date Received: August 30, 2002

Dear Ms. Teskey:

The above referenced samples were analyzed as instructed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the analytical report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

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IEPA Certification #100292

Analytical Report

Client: LFR LEVINE-FRICKE
Project ID: JM 009-07992-00
Lab File ID: 67051-52

Date Received: 08/30/02
Date Reported: 09/10/02

BTEX Method 5030/8260B
Date Analyzed: 09/09/02

Sample #	Description	Date/Time Taken	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	(Total) Xylenes ug/L
67051	02-12	08/29/02 10:45	<5.0	<5.0	<5.0	15.8
67052	UMW-08	08/29/02 11:25	275	<5.0	<5.0	<5.0

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

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E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: LFR Levine Fricke
Street Address: 630 Tollgate Rd Suite D
City: Elgin State: IL Zip: 60123
Phone: 847-695-8855 Fax: 847-695-7799
Send Report To: Wendy Teskey
Sampled By: Wendy Teskey

Project I.D.: JM 009-07992-00
P.O. #.:

Analyses

Matrix Codes: S = Soil W = Water O = Other

Date/Time Taken	Sample Description	Matrix	BTEX								Comments	Lab I.D.
8/29/02 1045	02-12	W	X									67051
↓ 1125	UMW-08	↓	X									052

Cooler Temperature: ~~I~~ -4 °C
Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____

Relinquished By: W Teskey 8/30/02 Date/Time 8/30/02 1042 Received By: [signature] Date/Time 8/30/02 1042
Relinquis' By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 1/01