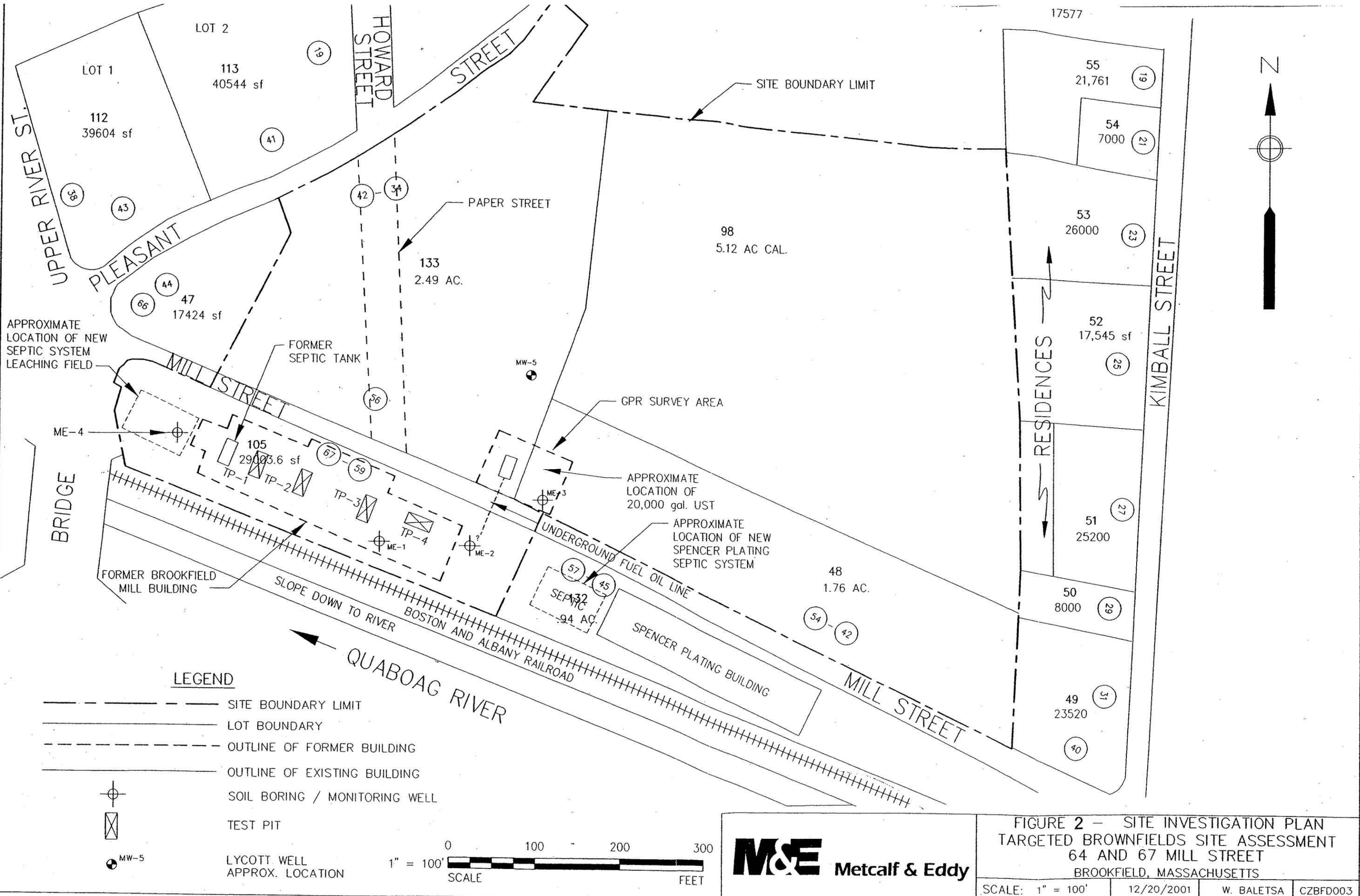


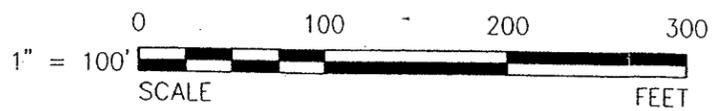
P:\20655NBB\BROOKFIELD, MA\CZBFD003.DWG

ANSI 8 - 11-20-01



LEGEND

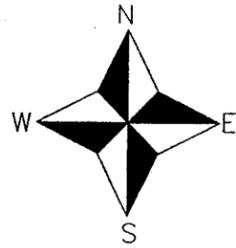
- SITE BOUNDARY LIMIT
- LOT BOUNDARY
- - - OUTLINE OF FORMER BUILDING
- OUTLINE OF EXISTING BUILDING
- ⊕ SOIL BORING / MONITORING WELL
- ⊗ TEST PIT
- ⊙ MW-5 LYCOTT WELL APPROX. LOCATION



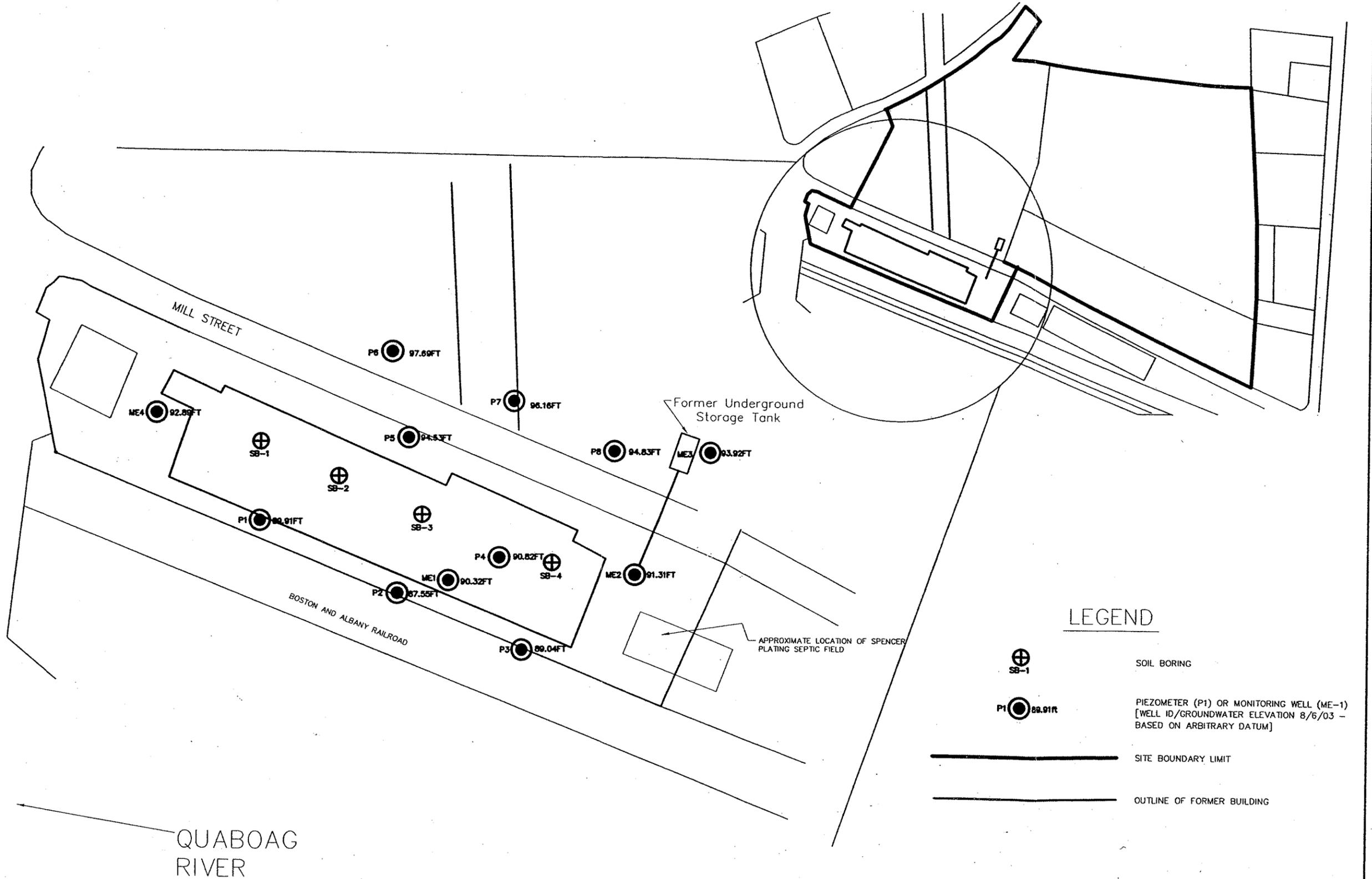
M&E Metcalf & Eddy

FIGURE 2 - SITE INVESTIGATION PLAN
TARGETED BROWNFIELDS SITE ASSESSMENT
64 AND 67 MILL STREET
BROOKFIELD, MASSACHUSETTS

SCALE: 1" = 100' 12/20/2001 W. BALETSA CZBFD003



MA ROUTE 140 (BRIDGE)



LEGEND

- SOIL BORING
- PIEZOMETER (P1) OR MONITORING WELL (ME-1)
[WELL ID/GROUNDWATER ELEVATION 8/6/03 - BASED ON ARBITRARY DATUM]
- SITE BOUNDARY LIMIT
- OUTLINE OF FORMER BUILDING

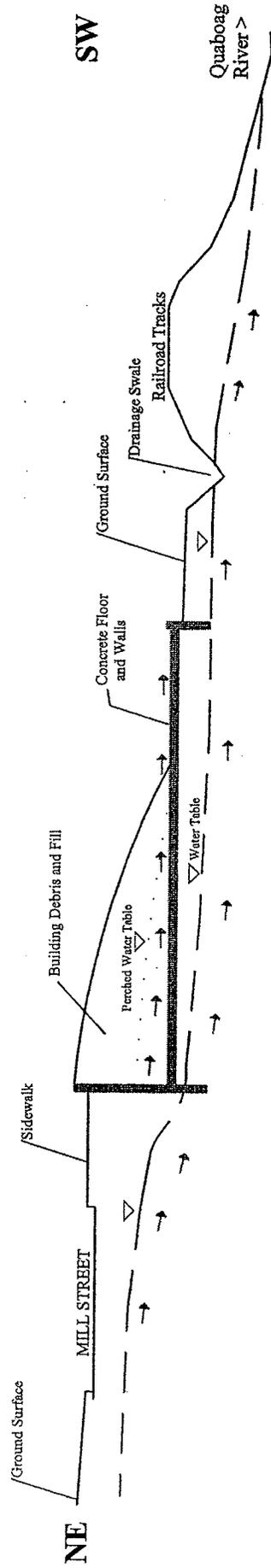
ANSI 9 - 11-20-01

	FIGURE 3 - SITE INVESTIGATION PLAN TARGETED BROWNFIELDS SITE ASSESSMENT - AUGUST 2003 64 AND 67 MILL STREET, BROOKFIELD, MASSACHUSETTS		
	SCALE: 1:60	10/20/03	W. Abrahams-Demotte Mill Street

FIGURE 5:
CONCEPTUAL CROSS-SECTION
MILL STREET, BROOKFIELD, MASSACHUSETTS

LEGEND

- Direction of Groundwater Flow
- ▽- Water Table
- ▽ Perched Water Table



APPENDIX D

Boring Logs from M&E Investigation, February 2006

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-1

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est. 0.5
--

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.0	0	0.0-1.0	Fill, top to bottom: concrete, black coarse sand some gravel, coal chips?, loose, wet.	FILL
						1.0-2.0	Fill, brown-orange, Fine Sand-Silt, trace clay, slightly compact, wet, dryer at depth.	
5 ft	ST - 2	4 - 8	na	1.7	0	2.0-4.0	Void	4.5' Native?
						4.0-4.5	Same As 1.0-2.0 ft. with no clay, compact, wet	5.7' Fine Sand, Some Silt
						4.5-5.7	Grey, Fine Sand, some silt, slightly compact, wet-	
						5.7-8.0	Saturated	
10 ft						5.7-8.0	Void	EOB @ 8.0 ft.
15 ft								
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID

MEB-2

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.)

8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft bgs</u>
WELL DIAMETER: <u>2-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.)

est 0.8

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	1.5	0	0.0-0.4	Fill: concrete.	FILL
						0.4-0.8	Orange-brown, Fine Sand, some brick.	
						0.8-1.1	Orange-brown, Coarse Sand, wet.	
						1.1-1.5	Brown, Fine Sand, little silt, compact, wet.	
5 ft	ST - 2	4 - 8	na	2.9	0	1.5-4.0	Void	6.9' EOB @ 8.0 ft.
						4.0-4.3	Orange-brown/Natural, Medium to Coarse Sand	
						4.3-5.0	Grey-brown, Fine Sandy Silt, soft, saturated.	
						5.0-6.9	Green-grey, Fine Sand and Silt, trace pebbles and clay compact, wet.	
10 ft						6.9-8.0	Void	
15 ft								
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types			Notes/Comments:			
few	5 to 10%	SS	Split Spoon		*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □			
little	15 to 25%	S3	3" Split Spoon		na - not applicable			
some	30 to 45%	ST	Shelby Tube		ns - not sampled			
mostly	>50%	R	Rock Core		bgs - below ground surface			

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEW-3

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION:

WELL DEPTH <u>8 ft. bgs</u>	SCREEN INTERVAL <u>3 to 8 feet bgs</u>
WELL DIAMETER: <u>1-inch</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) 1.46

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.2	0	0.0-0.2	Topsoil and burned material.	FILL
						0.2-1.1	Orange-grey-brown, Fine Sand, little-trace silt, slightly compact, wet.	
						1.1-1.7	Black and grey-black, burnt soil and wood, fine sand to silt texture.	
5 ft	ST - 2	4 - 8	na	3.5	4	1.7-2.2	Black-brown Coarse Sand and Fine Gravel, grades downward to a medium sand, loose, wet.	
						2.2-4.0	Void	
						4.0-4.4	Brown/Natural, Fine to Medium Sand, glass, coal slag loose.	
10 ft						4.4-5.1	Mottled greenish-brown, Fine Sand, little silt, little-trace gravel, moderately compact.	
						5.1-6.8	Grey-green with iron staining, mix of Fine Sand and Fine Sand with little Medium-Coarse Sand, poorly sorted.	
15 ft						6.8-7.5	Orange-tan Fine Sand, well sorted little-trace gravel, mottled, wet.	
						7.5-8.0	Void	
20 ft								7.5'
								EOB @ 8.0 ft.
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

MONITORING WELL INSTALLATION LOG

PROJECT: Mill Street, Brookfield, MA	JOB NO. 36800269.00114	WELL NO. MEW-3
DRILLING CONTRACTOR: Geologic-Earth Ex.	COORDINATES: (WGS84) N42 12.535 W72 06.086*	
BEGUN: February 7, 2006	GEO/ENG: W. Abrahams-Dematte	WATER LEVEL (Depth/Elev.) 1.46 ft bgs
FINISHED: February 7, 2006	DRILLER: Damian	

	DEPTH BGS HEIGHT AGS (FT)	ELEV. (FT) NGVD DATUM
<p>TOP OF PVC RISER DIA: <u>1-in.</u></p> <p style="text-align: center;">HEIGHT OF PVC ABOVE GROUND SURFACE</p> <p style="text-align: right;">1.95</p>	1.95	
<p>GENERALIZED GEOLOGIC LOG</p> <p>Refer to Boring Log</p> <p style="text-align: center;">GROUND SURFACE</p> <p style="text-align: right;">0.0</p>	0.0	
<p style="text-align: right;">Sand/Bentonite</p> <p style="text-align: right;">PVC RISER CASING: SCH.: <u>40</u> DIAM.: <u>1-in.</u></p> <p style="text-align: right;">BACKFILL TYPE: <u>Native</u></p> <p style="text-align: right;">TOP OF ANNULAR SEAL</p> <p style="text-align: right;">ANNULAR SEAL: TYPE: <u>Bent. Chips</u></p> <p style="text-align: right;">TOP OF FILTER PACK</p> <p style="text-align: right;">TOP OF WELL SCREEN</p> <p style="text-align: right;">PVC SCREEN: SCH.: <u>40</u> DIAM.: <u>1-in.</u> SLOT SIZE: <u>0.010-in.</u></p> <p style="text-align: right;">FILTER PACK TYPE: <u>Sand</u> SIZE: <u>#1</u></p> <p style="text-align: right;">BOTTOM OF SCREEN</p> <p style="text-align: right;">BOTTOM OF HOLE</p>	1	
	2	
	3	
	8	
	8	

METHOD DRILLED:
Direct Push - Geoprobe
METHOD DEVELOPED:
Surge & Pump (peristaltic)
TIME DEVELOPED:
Approx. 1.5 hours

2"
(DIAM.)

* Coordinate Accuracy to 3 meters.



GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEW-4

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION:

WELL DEPTH: <u>8 ft. bgs</u>	SCREEN INTERVAL: <u>3 to 8 ft. bgs</u>
WELL DIAMETER: <u>1-inch</u>	SCREEN TYPE: <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) 1.82

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.5	0	0.0-0.1	Organic, black, possible burnt.	FILL
						0.1-1.3	Orange-brown, Fine Sand, little medium sand, trace gravel, loose, moist.	
						1.3-2.3	Grey then black, Fine Sand, trace silt and fine gravel.	
5 ft	ST - 2	4 - 8	na	4.0	0	2.3-2.5	Same As 0.1-1.3 feet.	
						2.5-4.0	Void	
						4.0-5.3	Yellow-brown and Dark brown, Fine Sand, some-little silt, saturated.	
10 ft						5.3-6.4	Brown-orange, Fine Sand, trace coarse sand and gravel compact.	
						6.4-7.6	Blue-gray till, predominant grain size fine sand-silt.	
						7.6-8.0	Same As 6.4-7.6 feet, but brown with some crushed granite feldspar at depth.	
15 ft								5.0' Native?
								6.4' Fine Sand and Silt
								8.0' TILL?
								EOB @ 8.0 ft.
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				PAGE 1 OF 1
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

MONITORING WELL INSTALLATION LOG

PROJECT: Mill Street, Brookfield, MA	JOB NO. 36800269.00114	WELL NO. MEW-4
DRILLING CONTRACTOR: Geologic-Earth Ex.	COORDINATES: (WGS84) N42 12.531 W72 06.076*	
BEGUN: February 7, 2006	GEO/ENG: W. Abrahams-Dematte	WATER LEVEL (Depth/Elev.) 1.82 ft bgs
FINISHED: February 7, 2006	DRILLER: Damian	

	DEPTH BGS	ELEV. (FT)
	HEIGHT AGS (FT)	NGVD DATUM
<p>TOP OF PVC RISER DIA: <u>1-in.</u></p> <p>HEIGHT OF PVC ABOVE GROUND SURFACE</p> <p style="text-align: right;">1.75</p>	1.75	
<p>GENERALIZED GEOLOGIC LOG</p> <p>Refer to Boring Log</p> <p>GROUND SURFACE</p> <p>Sand/Bentonite</p> <p>PVC RISER CASING: SCH.: <u>40</u> DIAM.: <u>1-in.</u></p> <p>BACKFILL TYPE: <u>Native</u></p> <p>TOP OF ANNULAR SEAL</p> <p>ANNULAR SEAL: TYPE: <u>Bent. Chips</u></p> <p>TOP OF FILTER PACK</p> <p>TOP OF WELL SCREEN</p> <p>PVC SCREEN: SCH.: <u>40</u> DIAM.: <u>1-in.</u> SLOT SIZE: <u>0.010-in.</u></p> <p>FILTER PACK TYPE: <u>Sand</u> SIZE: <u>#1</u></p> <p>BOTTOM OF SCREEN</p> <p>BOTTOM OF HOLE</p> <p style="text-align: center;">2" (DIAM.)</p>	0.0	
	1	
	2	
	3	
	8	
	8	

METHOD DRILLED:
Direct Push - Geoprobe

METHOD DEVELOPED:
Surge & Pump (peristaltic)

TIME DEVELOPED:
Approx. 1.5 hours

* Coordinate Accuracy to 3 meters.



GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEW-5

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION:

WELL DEPTH	<u>8 ft. bgs</u>	SCREEN INTERVAL	<u>3 to 8 ft. bgs</u>
WELL DIAMETER:	<u>1-inches</u>	SCREEN TYPE	<u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) 1.51

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST-1	0-4	na	2.7	0	0.0-0.3	Organic, black, possibly some burnt.	FILL
						0.3-1.5	Yellow-brown, Fine Sand, trace silt and coarse-medium sand and pebbles, moderately compact, wet.	
						1.5-1.9	Black-grey, Fine Sand, trace silt, loose, wet.	3.0'
5 ft	ST-2	4-8	na	4.0	0	1.9-2.3	Yellow-brown/Natural, Medium Sand, trace coarse sand.	Native? Medium Sand
						2.3-2.7	Light brown, Silt and Clay, dense, dry.	4.9'
						2.7-4.0	Void	
						4.0-4.9	Brown/Natural, Medium Sand, little fine sand, loose, wet	7.1'
10 ft						4.9-5.7	Yellow-brown Clay, trace silt. Some preferential zones of groundwater flow throughout layer.	
						5.7-5.9	Fine Sand lens.	8.0'
						5.9-7.1	Same As 4.9-5.7 feet, but green-gray in color.	
						7.1-8.0	Purple Fine Sand, trace pebble (till?)	
15 ft								EOB @ 8.0 ft.
20 ft								
25 ft								
30 ft								

trace	0 to 5%	<u>Sample Types</u>		<u>Notes/Comments:</u>
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □
little	15 to 25%	S3	3" Split Spoon	na - not applicable
some	30 to 45%	ST	Shelby Tube	ns - not sampled
mostly	>50%	R	Rock Core	bgs - below ground surface

MONITORING WELL INSTALLATION LOG

PROJECT: Mill Street, Brookfield, MA	JOB NO. 36800269.00114	WELL NO. MEW-5
DRILLING CONTRACTOR: Geologic-Earth Ex.	COORDINATES: (WGS84) N42 12.528 W72 06.058*	
BEGUN: February 7, 2006	GEO/ENG: W. Abrahams-Dematte	WATER LEVEL (Depth/Elev.) 1.51
FINISHED: February 7, 2006	DRILLER: Damian	

	DEPTH BGS HEIGHT AGS (FT)	ELEV. (FT) NGVD DATUM
<p>TOP OF PVC RISER DIA.: <u>1-in.</u></p> <p style="text-align: right;">HEIGHT OF PVC ABOVE GROUND SURFACE</p> <p style="text-align: center;">2.07</p>	2.07	
<p>GENERALIZED GEOLOGIC LOG</p> <p>Refer to Boring Log</p> <p style="text-align: center;">GROUND SURFACE</p> <p style="text-align: center;">Sand/Bentonite</p>	0.0	
<p>PVC RISER CASING: SCH.: <u>40</u> DIAM.: <u>1-in.</u></p> <p>BACKFILL TYPE: <u>Native</u></p> <p>TOP OF ANNULAR SEAL</p>	1	
<p>ANNULAR SEAL: TYPE: <u>Bent. Chips</u></p> <p>TOP OF FILTER PACK</p>	2	
<p>TOP OF WELL SCREEN</p>	3	
<p>PVC SCREEN: SCH.: <u>40</u> DIAM.: <u>1-in.</u> SLOT SIZE: <u>0.010-in.</u></p> <p>FILTER PACK TYPE: <u>Sand</u> SIZE: <u>#1</u></p>		
<p>BOTTOM OF SCREEN</p>	8	
<p>BOTTOM OF HOLE</p> <p style="text-align: center;">2" (DIAM.)</p>	8	

METHOD DRILLED:
Direct Push - Geoprobe

METHOD DEVELOPED:
Surge & Pump (peristaltic)

TIME DEVELOPED:
Approx. 1.5 hours

* Coordinate Accuracy to 3 meters.



GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-6

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 1.0

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.9	0	0.0-0.3	Topsoil, organic.	FILL
						0.3-1.5	Yellow-orange-brown, Fine Sand, trace medium sand loose, wet.	
						1.5-1.9	Black, Fine Sand, little-trace silt, trace gravel, loose, wet.	
5 ft	ST - 2	4 - 8	na	4.0	0	1.9-2.1	Brown/Natural, Fine Sand, little medium sand, trace gravel, loose, wet.	5.2' Native Silt and Clay
						2.1-2.6	Green-brown, Fine Sand and Silt, trace clay and gravel, compact, till?	8.0' EOB @ 8.0 ft.
10 ft						2.6-2.9	Orange, Fine Sand, trace silt, slightly compact, wet.	
						2.9-4.0	Void	
						4.0-5.2	Grey-brown, Fine Sand and Silt, little gravel, trace clay peds, saturated.	
15 ft						5.2-6.0	Brown-orange, top is Fine Sand, some silt, grades down into Silt, little fine sand, trace clay.	
						6.0-6.3	Grey-blue, Fine Sand and Silt, wet.	
						6.3-6.8	Green-grey, Silt, trace fine sand, little clay, moderately firm.	
20 ft						6.8-8.0	Green-grey, Clay, firm, lens of fine sand, trace coarse sand at 7.1 ft.	
25 ft								
30 ft								
trace	0 to 5%	<u>Sample Types</u>		<u>Notes/Comments:</u>				PAGE 1 OF 1
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEW-7

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 7, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 7, 2006</u>	

DEPTH (ft.) 11

WELL INFORMATION:			
WELL DEPTH: <u>11 ft. bgs</u>	SCREEN INTERVAL: <u>3 to 11 ft. bgs</u>		
WELL DIAMETER: <u>1-inch</u>	SCREEN TYPE: <u>Sch 40, 0.010" slot size</u>		

WATER LEVEL (ft.) 5.31

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST-1	0-4	na	1.7	0	0.0-1.0	Coal ash and chips.	FILL
						1.0-1.7	Orange-tan, Silt, little fine sand, trace clay, slightly moist.	
						1.7-4.0	Void	
5 ft	ST-2	4-8	na	3.5	0	4.0-5.0	Red-orange Fine Sand, little-trace medium-coarse sand trace silt, slightly compact, wet.	
						5.0-7.1	Red-orange Silt, some-little fine sand, little gravel, compact, wet.	
						7.1-7.5	Brown Fine Sand and Silt, trace gravel, very dense, till?	
10 ft	ST-3	8-12	na	3.0	ns	7.5-8.0	Void	
						8.0-8.3	Granite rock discs.	
						8.3-8.6	Red-brown Fine Sand.	
						8.6-9.0	Grey Fine Sandy Silt, trace clay.	
						9.0-9.3	Natural, Medium Quartz Sand with amethyst grains.	
15 ft						9.3-11.0	Grey, Till.	11.0' EOB @ 11.0 ft.
						11.0	REFUSAL	
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

MONITORING WELL INSTALLATION LOG

PROJECT: Mill Street, Brookfield, MA		JOB NO. 36800269.00114	WELL NO. MEW-7
DRILLING CONTRACTOR: Geologic-Earth Ex.		COORDINATES: (WGS84) N42 12.537 W72 06.046*	
BEGUN: February 7, 2006	GEO/ENG: W. Abrahams-Dematte		WATER LEVEL (Depth/Elev.) 5.31 ft. bgs
FINISHED: February 7, 2006	DRILLER: Damian		

	DEPTH BGS	ELEV. (FT)
	HEIGHT AGS (FT)	NGVD DATUM
FLUSHMOUNT SURFACE CASING: DIA.: <u>2"</u> TYPE: <u>Iron-9/16th nut</u>		
CONCRETE		
GROUND SURFACE	0.0	
TOP OF PVC RISER	0.3	
BOTTOM OF PROTECTIVE PIPE	0.5	
PVC RISER CASING: SCH.: <u>40</u> DIAM.: <u>1-in.</u>		
BACKFILL TYPE: <u>Native soil.</u>		
TOP OF ANNULAR SEAL	1.0	
ANNULAR SEAL: TYPE: <u>Bent. Chips</u>		
TOP OF FILTER PACK	2.0	
TOP OF WELL SCREEN	3.0	
PVC SCREEN: SCH.: <u>40</u> DIAM.: <u>1-in.</u> SLOT SIZE: <u>0.010-in.</u>		
FILTER PACK TYPE: <u>Sand</u> SIZE: <u>#1</u>		
BOTTOM OF SCREEN	11.0	
BOTTOM OF HOLE	11.0	

FLUSHMOUNT SURFACE CASING:

DIA.: 2"
TYPE: Iron-9/16th nut

CONCRETE

GENERALIZED
GEOLOGIC LOG

Refer to
Boring Log

GROUND SURFACE

TOP OF PVC RISER

BOTTOM OF PROTECTIVE PIPE

PVC RISER CASING:

SCH.: 40

DIAM.: 1-in.

BACKFILL TYPE: Native soil.

TOP OF ANNULAR SEAL

ANNULAR SEAL: TYPE: Bent. Chips

TOP OF FILTER PACK

TOP OF WELL SCREEN

PVC SCREEN:

SCH.: 40

DIAM.: 1-in.

SLOT SIZE: 0.010-in.

FILTER PACK

TYPE: Sand

SIZE: #1

BOTTOM OF SCREEN

BOTTOM OF HOLE

2-in.
(DIAM.)

METHOD DRILLED:

Direct Push - Geoprobe

METHOD DEVELOPED:

Surge & Pump (peristaltic)

TIME DEVELOPED:

Approx. 1.5 hours

* Coordinate Accuracy to 3 meters.



GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-8

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 5.7

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	3.2	0	0.0-0.8	Fill including concrete, coal ash and slag, lens tan medium sand.	FILL
						0.8-2.4	Brown Fine Sand, trace silt, loose, dry.	
						2.4-3.2	Orange-yellow-brown Fine Sand, well sorted, loose, dry.	
5 ft	ST - 2	4 - 8	na	3.4	0	3.2-4.0	Void	
						4.0-4.6	Yellow-brown, Fine Sand, trace silt, loose, dry.	7.4' EOB @ 8.0 ft.
						4.6-5.7	Yellow-brown, Fine Sand, trace gravel/rock fragments and medium sand.	
10 ft						5.7-6.4	Green-brown Clay, little silt, slightly moist.	
						6.4-6.5	White Granite.	
						6.5-7.4	Red-brown Fine Sand, little silt, trace clay and gravel. Moist to wet at 7 feet where lens of coarse sand intersects the boring, refusal at 8 feet.	
15 ft						7.4-8.0	Void	
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6.□				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEW-9

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 12

WELL INFORMATION:

WELL DEPTH: <u>12 ft. bgs</u>	SCREEN INTERVAL: <u>2 to 12 ft. bgs</u>
WELL DIAMETER: <u>1-inch</u>	SCREEN TYPE: <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) 6.68

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	3.2	0	0.0-0.3	Asphalt	FILL
						0.3-0.7	Brown, Fine Sand, little silt, trace coarse sand, loose, dry	
						0.7-0.8	Coal dust/chips	
5 ft	ST - 2	4 - 8	na	4.0	0	0.8-1.6	Brown, Fine Sand, trace silt, loose, dry.	
						1.6-1.9	Tan/Natural medium sand, trace gravel.	
						1.9-2.4	Same As 0.8-1.6 feet.	
						2.4-3.2	Red-orange well sorted Fine Sand, loose, dry.	
10 ft	ST - 3	8 - 12	na	3.1	0	3.2-4.0	Void	
						4.0-4.3	Same As 0.8-1.6 feet.	
						4.3-5.3	Same As 0.8-1.6 feet, but yellow-brown, lens coal chips	
						5.3-5.4	Rock Fragments	
15 ft						5.4-7.0	Yellow-red-brown Fine Sand, little medium sand, little-gravel, little-trace silt, wet at 5.7 ft, large quartz rock fragments at 6.5 ft.	11.1' EOB @ 12.0 ft.
						7.0-7.3	White quartz rock fragments.	
						7.3-8.0	Red-brown, Fine Sand, trace silt, clay, and gravel, compact. Till like.	
20 ft						8.0-8.4	Yellow-red-brown Fine Sand, little silt, trace coarse sand and gravel, heavily mottled, slightly compact, wet.	
						8.4-8.8	Granite	
						8.8-10.9	Same As 8.0-8.4 feet.	
						10.9-11.1	Red-brown, Medium Sand, loose.	
25 ft						11.1-12.0	Void	
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

MONITORING WELL INSTALLATION LOG

PROJECT: Mill Street, Brookfield, MA	JOB NO. 36800269.00114	WELL NO. MEW-9
DRILLING CONTRACTOR: Geologic-Earth Ex.		COORDINATES: (WGS84) N42 12.546 W72 06.080*
BEGUN: February 8, 2006	GEO/ENG: W. Abrahams-Dematte	WATER LEVEL (Depth/Elev.) 6.36 ft. bgs
FINISHED: February 8, 2006	DRILLER: Damian	

	DEPTH BGS	ELEV. (FT) NGVD DATUM
FLUSHMOUNT SURFACE CASING: DIA: <u>2"</u> TYPE: <u>Iron-9/16th nut</u>		
CONCRETE		
GROUND SURFACE	0.0	
GENERALIZED GEOLOGIC LOG	0.31	
TOP OF PVC RISER		
BOTTOM OF PROTECTIVE PIPE	0.5	
PVC RISER CASING: SCH.: <u>40</u> DIAM.: <u>1-in.</u>		
BACKFILL TYPE: <u>Native soil.</u>		
TOP OF ANNULAR SEAL	1.0	
ANNULAR SEAL: TYPE: <u>Bent. Chips</u>		
TOP OF FILTER PACK	1.5	
TOP OF WELL SCREEN	2.0	
PVC SCREEN: SCH.: <u>40</u> DIAM.: <u>1-in.</u> SLOT SIZE: <u>0.010-in.</u>		
FILTER PACK TYPE: <u>Sand</u> SIZE: <u>#1</u>		
BOTTOM OF SCREEN	12.0	
BOTTOM OF HOLE	12.0	

METHOD DRILLED:
Direct Push - Geoprobe

METHOD DEVELOPED:
Surge & Pump (peristaltic)

TIME DEVELOPED:
Approx. 1.5 hours

2-in.
(DIAM.)

* Coordinate Accuracy to 3 meters.



GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-10
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DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 6.0

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.9	0	0.0-0.6	Asphalt	FILL
						0.6-1.2	Orange-brown, Fine Sand, trace pebble lens, coal chips.	
						1.2-2.1	Brown/black Fine Sand, trace silt, mixed with coal ash.	
						2.1-2.5	Red-brown Fine Sand, trace silt and coarse sand, slightly compact, dry.	
5 ft	ST - 2	4 - 8	na	4.0	0	2.5-2.9	Orange-brown Fine Sand, slightly compact.	6.0' Native?
						2.9-4.0	Void	8' Fine to Medium Sand
10 ft						4.0-4.6	Red-brown Fine Sand, trace silt, loose.	EOB @ 8.0 ft.
						4.6-5.0	Same As 4.0-4.6 plus coal chips.	
						5.0-6.0	Orange-brown fine Sand, well sorted, closer to a medium sand than the very fine sand over most of the site.	
						6.0-6.5	Brown Fine Sand, loose, wet.	
15 ft						6.5-6.7	Red-brown/Natural, Medium-Fine Sand.	
						6.7-7.1	Same As 6.0-6.5, wet.	
20 ft						7.1-8.0	Red-orange-brown, Medium-Fine Sand, mottled, loose, wet.	
25 ft								
30 ft								
trace	0 to 5%							
few	5 to 10%	SS	Split Spoon					
little	15 to 25%	S3	3" Split Spoon					
some	30 to 45%	ST	Shelby Tube					
mostly	>50%	R	Rock Core					
					Notes/Comments: *PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □ na - not applicable ns - not sampled bgs - below ground surface			

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-11
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DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH: <u>ft. bgs</u>	SCREEN INTERVAL: <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE: <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 5.0

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.8	0	0.0-0.2	Asphalt	FILL
						0.2-0.7	Red-brown Fine Sand, little coarse sand, trace pebble and silt, loose, dry.	
						0.7-1.1	Yellow-tan Fine Sand, lens brown fine sand, loose, dry	
5 ft	ST - 2	4 - 8	na	3.7	0	1.1-1.7	Same As 0.2-0.7 feet, plus little rock chips.	
						1.7-2.4	Brown Fine Sand, little-trace silt, slightly compact, dry	EOB @ 8.0 ft.
						2.4-2.8	Red-orange Fine Sand, loose, dry.	
						2.4-4.0	Void	
10 ft						4.0-4.3	Black-brown Fine Sand, little-trace silt, loose, dry	
						4.3-4.6	Light brown Fine Sand, some medium-coarse sand, loose, dry.	
						4.6-6.1	Yellow-grey-brown Fine Sand, well sorted, trace pebble/ fine gravel. Heavy iron staining at 5.3-6.1 feet, loose, wet.	
15 ft						6.1-6.9	Light brown Silt and Clay, little-trace fine sand (usually as lens).	
						6.9-7.7	Yellow-brown Fine Sand, some silt, little-trace rock fragments, compact.	
20 ft						7.7-8.0	Void	
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				PAGE 1 OF 1
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-12

DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 4.5

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	2.8	0	0.0-0.6	Asphalt	FILL
						0.6-1.4	Yellow-brown Medium-Fine Sand, little coarse sand and pebble, trace gravel, loose, dry.	
						1.4-2.2	Brown Fine-Coarse Sand, trace gravel, compact, dry.	
5 ft	ST - 2	4 - 8	na	4.0	0	2.2-2.8	Orange-brown Fine Sand, well sorted, clean.	
						2.8-4.0	Void	EOB @ 8.0 ft.
						4.0-4.5	Brown/Natural Fine Sand, little medium sand, loose, dry.	
10 ft						4.5-5.1	Grey Fine Sand, trace pebble, mottled, moist.	
						5.1-6.0	Red-yellow-brown Fine Sand, little-trace silt, trace fine gravel, wet.	
						6.0-6.7	Brown, Clay, Some silt, little-trace fine sand (usually as a lens), very firm, wet.	
15 ft						6.7-7.7	Yellow-brown Fine Sand, little silt, trace pebble, moist.	
						7.7-8.0	Yellow-brown Fine Sand, loose, wet.	
20 ft								
25 ft								
30 ft								

trace	0 to 5%		Sample Types	Notes/Comments:
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □
little	15 to 25%	S3	3" Split Spoon	na - not applicable
some	30 to 45%	ST	Shelby Tube	ns - not sampled
mostly	>50%	R	Rock Core	bgs - below ground surface

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-13
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DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 4.0

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft.)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	3.3	0	0.0-0.3	Topsoil, fine sandy loam.	Fine Sand
						0.3-0.8	Red-brown Fine Sand, trace silt, loose, dry.	
						0.8-1.7	Yellow-brown Fine Sand, trace silt, loose, dry.	
						1.7-2.5	Green-brown, Fine Sand and Silt, trace clay and pebble, slightly dense, dry. Rock fragments at 2.3-2.5.	
5 ft	ST - 2	4 - 8	na	4.0	0	2.5-3.3	Red-orange-brown Fine Sand, little silt, sl. Compact, dry	6.0'
						3.3-4.0	Void	Silt - Clay
							dry.	6.7'
						4.5-5.1	Grey Fine Sand, trace pebble, mottled, moist.	8.0'
10 ft						5.1-6.0	Red-yellow-brown Fine Sand, little-trace silt, trace fine gravel, wet.	EOB @ 8.0 ft.
						6.0-6.7	Brown, Clay, Some silt, little-trace fine sand (usually as a lens), very firm, wet.	
						6.7-7.7	Yellow-brown Fine Sand, little silt, trace pebble, moist.	
						7.7-8.0	Yellow-brown Fine Sand, loose, wet.	
15 ft								
20 ft								
25 ft								
30 ft								

trace 0 to 5%	SS	Split Spoon	Notes/Comments: *PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □ na - not applicable ns - not sampled bgs - below ground surface
few 5 to 10%	S3	3" Split Spoon	
little 15 to 25%	ST	Shelby Tube	
some 30 to 45%	R	Rock Core	
mostly >50%			

GEOLOGIC LOG

METCALF & EDDY, INC. 701 Edgewater Drive Wakefield, MA 01880 (617) 246-5200	SITE LOCATION: MILL STREET 64-67 Mill Street Brookfield, MA
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BORING/WELL ID MEB-14
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DRILL CONTRACTOR: <u>Geologic-Earth Ex.</u>	DRILLING METHOD: <u>Direct Push</u>
DRILLER: <u>Damian</u>	DRILL RIG: <u>Geoprobe</u>
GEOLOGIST/ENG. <u>W. Abrahams-Dematte</u>	DRILLING FLUID: <u>none</u>
START DATE: <u>February 8, 2006</u>	SAMPLING METHOD: <u>2" polypropylene sleeve.</u>
FINISH DATE: <u>February 8, 2006</u>	

DEPTH (ft.) 8

WELL INFORMATION: <u>No Well</u>	
WELL DEPTH <u>ft. bgs</u>	SCREEN INTERVAL <u>ft. bgs</u>
WELL DIAMETER: <u>1-inches</u>	SCREEN TYPE <u>Sch 40, 0.010" slot size</u>

WATER LEVEL (ft.) est 4.0

Depth	Sample No.	Sample Interval (ft)	Blow Counts (per 6 in.)	Rec. (ft.)	Hdsp. PID* (ppm)	Depth (ft. bgs)	Sample Description	Stratigraphic Description
0 ft	ST - 1	0 - 4	na	3.3	0	0.0-0.4	Topsoil, very fine sandy loam.	Fine Sand and Silt
						0.4-0.8	Red-brown Fine Sand, little silt, trace pebble, loose, dry.	
						0.8-1.8	Same As 0.4-0.8 but yellow-brown.	
						1.8-2.9	Light brown Fine sand, little-trace pebble and rock fragments, trace silt, slightly dense, dry.	
5 ft	ST - 2	4 - 8	na	4.0	0	2.9-3.4	Brown-orange Fine Sand, little-trace gravel, trace silt, loose, dry.	
						3.4-4.0	Void	EOB @ 8.0 ft.
						4.0-6.6	Green-brown Fine Sand, little-trace silt, trace pebble and rock fragments. Zones of iron staining.	
10 ft						6.6-6.9	Tan, Fine Sand, well sorted.	
						6.9-8.0	Red/green-brown Fine Sand-Silt, trace fine gravel and clay, dense, mottled. Wet at 7.8 feet, preferential flow zones up to 5.5 feet.	
15 ft								
20 ft								
25 ft								
30 ft								
trace	0 to 5%	Sample Types		Notes/Comments:				
few	5 to 10%	SS	Split Spoon	*PID calibrated to isobutylene. To read as benzene, multiply by 0.6. □				
little	15 to 25%	S3	3" Split Spoon	na - not applicable				
some	30 to 45%	ST	Shelby Tube	ns - not sampled				
mostly	>50%	R	Rock Core	bgs - below ground surface				

APPENDIX E

Laboratory Data – Soil, M&E Investigation

Metcalf & Eddy, Inc.
 701 Edgewater Drive, Wakefield, Massachusetts 01880
 T 781.246.5200 F 781.245.6293 www.m-e.aecom.com

MEMORANDUM

PROJECT NO: 036800269.00115
TO: TBA: Mill Street, Brookfield, Massachusetts
FROM: K. Rutherford *KRutherford*
REVIEWED BY: R. Purdy *R Purdy*
CC: B. Weir
 N. Thurber
 D. Laferte (memo only)

DATE: April 3, 2006
OFFICE: Wakefield
COMPANY: Metcalf & Eddy, Inc.

SUBJECT: Limited QC Review/Modified Tier II-Like Review
 Metals Analytical Results
 Mitkem Corporation, Warwick, Rhode Island
 Lab Project No. E0139

February 7 and 8, 2006 (B.W., 4/21/06)
 On ~~November 28, 29, and 30, and December 3, 2005~~, seventeen soil samples (including two field duplicate samples) and four trip blanks were collected by Metcalf & Eddy, Inc. (M&E) from the Targeted Brownfields Assessment (TBA) Mill Street Site, located in Brookfield, Massachusetts. The sampling was performed as part of the TBA Response Action Contract Work Assignment #155-SIBZ-0100. The samples were submitted to Mitkem Corporation (Warwick, Rhode Island) for the analysis of mercury according to *SW-846 Method 7471A, Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)*, and for metals according to *SW-846 Method 6010B, Inductively Coupled Plasma-Atomic Emission Spectrometry*. The samples were received by the laboratory on February 8, 2006. The data package was received in the M&E office on February 24, 2006.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site, and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to former M&E Work Assignment Manager, Barb Wyskowski. The data review included:

- * • Data Completeness
- * • Preservation and Technical Holding Times
- Initial and Continuing Calibrations
- Blank Analysis
- Inductively Coupled Plasma (ICP) Interference Check Samples
- ICP Serial Dilution Analysis
- Matrix Spike/Matrix Spike Duplicate
- Lab Duplicate Samples
- Field Duplicate Samples
- * • Laboratory Control Sample/ Laboratory Control Duplicate Sample
- Analyte Quantitation and Reported Quantitation Limits
- NA • Performance Evaluation Samples
- * = All criteria met for this sample
- NA = Not applicable and/or no information was provided by the laboratory

Note: Worksheets are not included for parameters that have met criteria or for criteria that are not applicable to the method and/or to the modified Tier II-like review.

Included in Attachment I is a copy of the chain-of-custody (COC) record. Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum. Included in Attachment III are the data validation worksheets.

Data Completeness

The laboratory was contacted on March 8, 2006 regarding the following information:

1. The cover letter and pages 0001 and 0002 incorrectly refer the Client Project as Aztec Industries. It should be Mill Street, Brookfield. Hand-corrections were made by the project manager; a resubmittal was not requested.
2. No receipt date or time was provided on the chains of custody (COC). The receipt date was provided on the Sample Condition Form, therefore the signed and dated COC was not requested.
3. The Control Limits for mercury on the initial and continuing calibration Form 2A should be 90%-110%, not 80%-120%. All criteria were met for 90%-110%, and a resubmittal was not requested.

Initial and Continuing Calibrations

All criteria met for initial and continuing calibrations. No low level calibration check standard was performed for the metals analysis. However, the low calibration point was at or below the reporting limit for all analytes.

Blanks

The following table summarizes the level of blank contamination detected in the laboratory blanks associated with the soil samples. If a contaminant was detected in more than one blank, the highest concentration was used to qualify associated sample results. Blank action levels were adjusted for sample size and solids content.

Analyte	Maximum Concentration (mg/Kg)	Nominal BAL (mg/Kg)	Samples Affected/Actions
antimony	0.345	1.725	Qualify the result as non-detect (U) at the reported concentration in sample MEB-2-0-1.5.
barium	0.25	1.25	All sample results were >BAL; no actions required.
cadmium	0.01	0.05	Qualify the result as estimated non-detect (UJ) at the sample-specific QL for sample MEW-9-0.5-3. All other sample results were >BAL; no actions required.
	-0.007	0.035	
chromium	0.035	0.175	All sample results were >BAL; no actions required.
lead	0.10	0.50	All sample results were >BAL; no actions required.
nickel	0.09	0.45	All sample results were >BAL; no actions required.
selenium	0.0059	0.0295	Qualify the results as non-detect (U) at the sample-specific QL

Analyte	Maximum Concentration (mg/Kg)	Nominal BAL (mg/Kg)	Samples Affected/Actions
	-0.195	0.975	for all samples.
thallium	0.225	1.125	Qualify the results as estimated non-detect (UJ) at the sample-specific QL for all samples.
	-0.00415	0.0208	
vanadium	0.070	0.35	All sample results were >BAL; no actions required.
zinc	0.845	4.225	All sample results were >BAL; no actions required.

BAL – Blank Action Limit

Inductively Coupled Plasma (ICP) Interference Check Samples

All recovery criteria (80%-120%) were met for all analytes in Interference Check Sample AB.

Due to the limited nature of this review (lack of raw data), an in-depth review of the ICSA solution exceedances was not possible. The validator reviewed the ICSA results and found there were no gross exceedances (unspiked analytes at concentrations >reporting limit) associated with the soil analytical sequences. No actions were taken since the significance of any interference could not be evaluated for the soil samples due to lack of raw data.

ICP Serial Dilution Analysis Results

ICP Serial Dilution Analysis was performed on sample MEB-1-0-2. Analytes that did not meet difference criteria (%D<15) are summarized in the following table:

Analyte	MDL (ug/L)	50xMDL (ug/L)	Sample Result	Serial Dilution	%D	Samples Affected/Actions
barium	2.1	105	1664.64	1951.75	17.2	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.
beryllium	0.15	7.5	2.90	4.10	41.4	The concentration in the undiluted sample was <50xMDL; no actions required.
cadmium	0.10	5.0	12.16	5.53	54.5	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.
lead	0.46	23	279.23	326.22	16.8	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.
nickel	0.59	29.5	155.46	183.55	18.1	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.
vanadium	0.47	23.5	429.74	500.70	16.5	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.
zinc	2.3	115	687.73	803.32	16.8	Qualify as estimated (J/UJ) the positive and non-detect results in all samples.

Matrix Spike/Matrix Spike Duplicate

Field sample MEB-1-0-2 was analyzed as a matrix spike. The following table summarizes the analytes that did not meet criteria for recovery:

Analyte	MEB-1-0-2 MS %R	Action
antimony	33.0	Estimate (J) the positive antimony result in sample MEB-2-0-1.5. Estimate (UJ) the non-detect antimony results in all other samples. Note that the positive result for antimony in sample MEB-2-0-1.5 was qualified as non-detect (U) at the sample reported result due to blank contamination. The final result for antimony in sample MEB-2-0-1.5 was qualified as non-detect (UJ) at the sample reported result.

Lab Duplicate Samples

Sample MEB-1-0-2 was analyzed as a laboratory duplicate. The following table summarizes the analytes that did not meet criteria (< 50%) for RPD:

Compound	MEB-1-0-2 Concentration	MEB-1-0-2D Concentration	% RPD	Action
mercury	0.0442	ND	NC	Based on professional judgment, no actions were taken since the difference between the original sample and the duplicate analysis was <2x the sample-specific QL.

ND – non-detect
NC – not calculated

Field Duplicates

Samples MEW-3-0-2.2 and MEK-3-0-2.2 were analyzed as field duplicates. The following table summarizes the analytes that did not meet criteria (< 50%) for RPD:

Compound	MEW-3-0-2.2 Concentration	MEK-3-0-2.2 Concentration	% RPD	Action
lead	507	917	58	Estimate (J) the positive lead results in all samples.
mercury	0.076	0.038	67	Estimate (J/UJ) the positive and non-detect mercury results in all samples.

Analyte Quantitation and Reported Quantitation Limits

The result for antimony in sample MEB-2-0-1.5 was qualified as non-detect (U) at the sample result. The results for selenium in all samples were qualified as non-detect (U) at the absolute value of the blank action limit.

Attachment I
Chain-of-Custody

E0139



CHAIN OF CUSTODY FORM

Job/Project Name: Mill Street		Job/Project Location: Brookfield, MA		Job/Project Number: 36800269.00114			
Samplers: (Signatures) Cindy Castlebury		Recorder: (Signature) Cindy Castlebury		Date: 2/18/06			
Lab (Samples Sent To): Mitkem Corporation							
SAMPLING	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX			ANALYSIS REQUESTED	COMMENTS
			Water	Soil	COMPOSITE/GRAB		
Date	Time						
2/7/06	1030	MEB-1-0-2	X		C	N	1
2/7/06	1045	MEB-1-4-6	X		C	N	1
2/7/06	1100	MEB-2-0-1.5	X		C	N	1
2/7/06	1115	MEB-2-4-7	X		C	N	1
2/7/06	1155	MEW-3-0-2.2	X		C	N	1
2/7/06	1200	MEK-3-0-2.2	X		C	N	1
2/7/06	1210	MEW-3-4-7.5	X		C	N	1
2/7/06	1245	MEW-4-0-2.5	X		C	N	1
2/7/06	1300	MEW-4-4-8	X		C	N	1
2/7/06	1315	MEW-5-0-2.7	X		C	N	1
2/7/06	1330	MEW-5-4-8	X		C	N	1
2/7/06	1350	MEB-6-0-3	X		C	N	1
Relinquished By: (Signature) Cindy Castlebury	Date: 2/8/06	Time: 1610	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature) Henry Hanley	Date:
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
Method of Shipment: COURIER							

12 11 10 09 08 07 06 05 04 03 02 01



CHAIN OF CUSTODY FORM

Job/Project Name: Mill Street
 Job/Project Location: Brookfield, MA
 Job/Project Number: 36900269, 00114
 Samplers: (Signatures) Cindy Castleberry
 Recorder: (Signature) Cindy Castleberry
 Date: 2/8/06
 Lab (Samples Sent To): Mitkem Separation

SAMPLING	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX		COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED		COMMENTS
			Water	Soil			MCP Metals	Total #	
2/7/06 1410	MEB-6-4-8	---	X		C	N			
2/7/06 1500	MEW-7-1-1.7	---	X		C	N			
2/7/06 1525	MEW-7-4-7.5	---	X		C	N			
2/8/06 0845	MEB-8-1-3.2	---	X		C	N			
2/8/06 0900	MEB-8-4-7.4	---	X		C	N			
2/8/06 0920	MEW-9-0.5-3	---	X		C	N			
2/8/06 0935	MEW-9-4-8	---	X		C	N			
2/8/06 1010	MEB-10-2-3	---	X		C	N			
2/8/06 1020	MEB-10-4-8	---	X		C	N			
2/8/06 1030	MEK-10-4-8	---	X		C	N			
2/8/06 1035	MEB-11-0.5-3	---	X		C	N			
2/8/06 1050	MEB-11-4-8	---	X		C	N			

Relinquished By: (Signature) <i>Cindy Castleberry</i>	Date: 2/8/06	Time: 1610	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:		

Method of Shipment: COURIER

Attachment II
Sample Result Summary Sheets

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-1-0-2

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-01

Level (low/med): MED

Date Received: 02/08/06

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	96.3		EJ	P
7440-41-7	Beryllium	0.29	U	J	P
7440-43-9	Cadmium	0.70		EJ	P
7440-47-3	Chromium	16.6		E	P
7440-50-8	Copper	24.3		E	P
7439-92-1	Lead	16.2		EJ	P
7440-02-0	Nickel	9.0		EJ	P
7782-49-2	Selenium	1.7	U	J	P
7440-22-4	Silver	1.7	U		P
7440-28-0	Thallium	1.2	U	J	P
7440-62-2	Vanadium	24.9		EJ	P
7440-66-6	Zinc	39.8		EJ	P
7439-97-6	Mercury	0.044		J	CV

KM24-3-06

KMR
3/29/06

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-1-4-6

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-02

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.99	U	N	P
7440-38-2	Arsenic	1.7		E	P
7440-39-3	Barium	76.6		EJ	P
7440-41-7	Beryllium	0.25	U	J	P
7440-43-9	Cadmium	0.71		EJ	P
7440-47-3	Chromium	18.1		E	P
7440-50-8	Copper	15.4		E	P
7439-92-1	Lead	3.4		EJ	P
7440-02-0	Nickel	9.9		EJ	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	0.99	U	J	P
7440-62-2	Vanadium	24.8		EJ	P
7440-66-6	Zinc	25.2		EJ	P
7439-97-6	Mercury	0.034	U	J	CV

KMC 4-3-06

KML
3/21/06

Comments:

GC 3/21/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-10-2-3

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-20

Level (low/med): MED

Date Received: 02/08/06

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.95	U	N	P
7440-38-2	Arsenic	3.3	E		P
7440-39-3	Barium	34.5	E	J	P
7440-41-7	Beryllium	0.24	U	J	P
7440-43-9	Cadmium	0.29	E	J	P
7440-47-3	Chromium	13.0	E		P
7440-50-8	Copper	7.5	E		P
7439-92-1	Lead	8.4	E	J	P
7440-02-0	Nickel	5.5	E	J	P
7782-49-2	Selenium	1.4	U	J	P
7440-22-4	Silver	1.4	U		P
7440-28-0	Thallium	0.95	U	J	P
7440-62-2	Vanadium	19.2	E	J	P
7440-66-6	Zinc	54.9	E	J	P
7439-97-6	Mercury	0.053		J	CV

KMR 4-3-06

*KMR
3/29/06*

Comments:

R2/29/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-2-0-1.5

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-03

Level (low/med): MED

Date Received: 02/08/06

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	N	P
7440-38-2	Arsenic	4.3	E		P
7440-39-3	Barium	54.6	E	J	P
7440-41-7	Beryllium	0.26	U	J	P
7440-43-9	Cadmium	1.6	E	J	P
7440-47-3	Chromium	26.2	E		P
7440-50-8	Copper	166	E		P
7439-92-1	Lead	89.1	E	J	P
7440-02-0	Nickel	9.1	E	J	P
7782-49-2	Selenium	1.6	U	J	P
7440-22-4	Silver	1.6	U		P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	17.6	E	J	P
7440-66-6	Zinc	110	E	J	P
7439-97-6	Mercury	0.070	J		CV

KMR 4/3/06

KMR
3/29/06

Comments:

Handwritten signature

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-2-4-7

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-04

Level (low/med): MED

Date Received: 02/08/06

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	N	P
7440-38-2	Arsenic	3.1	E		P
7440-39-3	Barium	54.2	E	J	P
7440-41-7	Beryllium	0.27	U	J	P
7440-43-9	Cadmium	0.60	E	J	P
7440-47-3	Chromium	26.3	E		P
7440-50-8	Copper	84.2	E		P
7439-92-1	Lead	75.4	E	J	P
7440-02-0	Nickel	6.6	E	J	P
7782-49-2	Selenium	1.6	U	J	P
7440-22-4	Silver	1.6	U		P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	26.5	E	J	P
7440-66-6	Zinc	87.4	E	J	P
7439-97-6	Mercury	0.060	J		CV

KML 4/3/06

*KML
3/21/06*

Comments:

KML 3/21/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-6-0-3

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-12

Level (low/med): MED

Date Received: 02/08/06

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U	N	P
7440-38-2	Arsenic	5.5	E		P
7440-39-3	Barium	61.5	E	J	P
7440-41-7	Beryllium	0.25	U	J	P
7440-43-9	Cadmium	0.97	E	J	P
7440-47-3	Chromium	14.6	E		P
7440-50-8	Copper	33.8	E		P
7439-92-1	Lead	238	E	J	P
7440-02-0	Nickel	6.0	E	J	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	1.0	U	J	P
7440-62-2	Vanadium	21.2	E	J	P
7440-66-6	Zinc	94.2	E	J	P
7439-97-6	Mercury	0.40	J		CV

KMC 4/3/06

*KMC
3/29/06*

Comments:

EC 2/29/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-6-4-8

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-13

Level (low/med): MED

Date Received: 02/08/06

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.99	U	N	P
7440-38-2	Arsenic	4.2		E	P
7440-39-3	Barium	76.5		EJ	P
7440-41-7	Beryllium	0.25	U	J	P
7440-43-9	Cadmium	1.6		EJ	P
7440-47-3	Chromium	20.2		E	P
7440-50-8	Copper	43.8		E	P
7439-92-1	Lead	27.3		EJ	P
7440-02-0	Nickel	7.2		EJ	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	0.99	U	J	P
7440-62-2	Vanadium	26.2		EJ	P
7440-66-6	Zinc	51.1		EJ	P
7439-97-6	Mercury	0.36		J	CV

KMR 4/3/06

KMR
3/29/06

Comments:

Handwritten signature
3/29/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-8-1-3.2

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-16

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.97	U	J	P
7440-38-2	Arsenic	3.3		E	P
7440-39-3	Barium	42.6		EJ	P
7440-41-7	Beryllium	0.24	U	J	P
7440-43-9	Cadmium	0.28		EJ	P
7440-47-3	Chromium	12.3		E	P
7440-50-8	Copper	12.5		E	P
7439-92-1	Lead	17.3		EJ	P
7440-02-0	Nickel	5.6		EJ	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	0.97	U	J	P
7440-62-2	Vanadium	17.8		EJ	P
7440-66-6	Zinc	49.4		EJ	P
7439-97-6	Mercury	0.034	U	J	CV

KMR 4/3/06

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3/29/06

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEB-8-4-7.4

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-17

Level (low/med): MED

Date Received: 02/08/06

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.95	U	M	P
7440-38-2	Arsenic	4.8	E		P
7440-39-3	Barium	53.9	E	J	P
7440-41-7	Beryllium	0.24	U	J	P
7440-43-9	Cadmium	0.45	E	J	P
7440-47-3	Chromium	17.6	E		P
7440-50-8	Copper	15.8	E		P
7439-92-1	Lead	6.3	E	J	P
7440-02-0	Nickel	6.9	E	J	P
7782-49-2	Selenium	1.4	U	J	P
7440-22-4	Silver	1.4	U		P
7440-28-0	Thallium	0.95	U	J	P
7440-62-2	Vanadium	25.4	E	J	P
7440-66-6	Zinc	32.6	E	J	P
7439-97-6	Mercury	0.035	U	J	CV

KMR 4/3/06

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3/29/06

Comments:

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U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEK-3-0-2.2

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-06

Level (low/med): MED

Date Received: 02/08/06

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	J	P
7440-38-2	Arsenic	3.9	E	J	P
7440-39-3	Barium	130	E	J	P
7440-41-7	Beryllium	0.28	U	J	P
7440-43-9	Cadmium	0.85	E	J	P
7440-47-3	Chromium	17.3	E	J	P
7440-50-8	Copper	33.6	E	J	P
7439-92-1	Lead	917	E	J	P
7440-02-0	Nickel	6.4	E	J	P
7782-49-2	Selenium	1.7	U	J	P
7440-22-4	Silver	1.7	U	J	P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	22.6	E	J	P
7440-66-6	Zinc	210	E	J	P
7439-97-6	Mercury	0.038	J	J	CV

KMR 4/3/06

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3/29/06

Comments:

KMR 3/29/06

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-3-0-2.2

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-05

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.94	U	N	P
7440-38-2	Arsenic	4.2	E		P
7440-39-3	Barium	91.6	E	J	P
7440-41-7	Beryllium	0.23	U	J	P
7440-43-9	Cadmium	0.92	E	J	P
7440-47-3	Chromium	15.8	E		P
7440-50-8	Copper	32.4	E		P
7439-92-1	Lead	507	E	J	P
7440-02-0	Nickel	6.0	E	J	P
7782-49-2	Selenium	1.4	U	J	P
7440-22-4	Silver	1.4	U		P
7440-28-0	Thallium	0.94	U	J	P
7440-62-2	Vanadium	22.2	E	J	P
7440-66-6	Zinc	213	E	J	P
7439-97-6	Mercury	0.076	J		CV

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3/29/06

Comments:

KME 3/29/06

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-3-4-7.5

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-07

Level (low/med): MED

Date Received: 02/08/06

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.88	U	N	P
7440-38-2	Arsenic	1.2	E		P
7440-39-3	Barium	43.5	E	J	P
7440-41-7	Beryllium	0.22	U	J	P
7440-43-9	Cadmium	1.5	E	J	P
7440-47-3	Chromium	16.2	E		P
7440-50-8	Copper	14.9	E		P
7439-92-1	Lead	31.7	E	J	P
7440-02-0	Nickel	6.6	E	J	P
7782-49-2	Selenium	1.3	U	J	P
7440-22-4	Silver	1.3	U		P
7440-28-0	Thallium	0.88	U	J	P
7440-62-2	Vanadium	22.7	E	J	P
7440-66-6	Zinc	277	E	J	P
7439-97-6	Mercury	0.031	U	J	CV

KMR 4/13/06

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3/27/06

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-4-0-2.5

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-08

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.99	U	N	P
7440-38-2	Arsenic	4.0	E		P
7440-39-3	Barium	46.2	E	J	P
7440-41-7	Beryllium	0.25	U	J	P
7440-43-9	Cadmium	0.36	E	J	P
7440-47-3	Chromium	13.4	E		P
7440-50-8	Copper	22.4	E		P
7439-92-1	Lead	90.6	E	J	P
7440-02-0	Nickel	6.8	E	J	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	0.99	U	J	P
7440-62-2	Vanadium	19.4	E	J	P
7440-66-6	Zinc	99.4	E	J	P
7439-97-6	Mercury	0.047	J		CV

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Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-4-4-8

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-09

Level (low/med): MED

Date Received: 02/08/06

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	W	P
7440-38-2	Arsenic	2.1	E		P
7440-39-3	Barium	46.6	E	J	P
7440-41-7	Beryllium	0.26	U	J	P
7440-43-9	Cadmium	0.28	E	J	P
7440-47-3	Chromium	16.1	E		P
7440-50-8	Copper	15.4	E		P
7439-92-1	Lead	64.9	E	J	P
7440-02-0	Nickel	9.6	E	J	P
7782-49-2	Selenium	1.6	U	J	P
7440-22-4	Silver	1.6	U		P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	21.2	E	J	P
7440-66-6	Zinc	47.3	E	J	P
7439-97-6	Mercury	0.031	U	J	CV

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Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-5-0-2.7

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-10

Level (low/med): MED

Date Received: 02/08/06

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	N	P
7440-38-2	Arsenic	5.6	E		P
7440-39-3	Barium	92.9	E	J	P
7440-41-7	Beryllium	0.26	U	J	P
7440-43-9	Cadmium	1.1	E	J	P
7440-47-3	Chromium	18.2	E		P
7440-50-8	Copper	49.1	E		P
7439-92-1	Lead	340	E	J	P
7440-02-0	Nickel	6.8	E	J	P
7782-49-2	Selenium	1.6	U	J	P
7440-22-4	Silver	1.6	U		P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	26.8	E	J	P
7440-66-6	Zinc	176	E	J	P
7439-97-6	Mercury	0.24	J		CV

knw 4/3/06

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3/27/06*

Comments:

Knw 2/29/06

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-5-4-8

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-11

Level (low/med): MED

Date Received: 02/08/06

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.0	U	N	P
7440-38-2	Arsenic	1.6	E		P
7440-39-3	Barium	164	E	J	P
7440-41-7	Beryllium	0.25	U	J	P
7440-43-9	Cadmium	1.4	E	J	P
7440-47-3	Chromium	43.2	E		P
7440-50-8	Copper	28.0	E		P
7439-92-1	Lead	14.2	E	J	P
7440-02-0	Nickel	20.4	E	J	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	1.0	U	J	P
7440-62-2	Vanadium	69.5	E	J	P
7440-66-6	Zinc	109	E	J	P
7439-97-6	Mercury	0.038	U	J	CV

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3/29/06

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-7-1-1.7

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-14

Level (low/med): MED

Date Received: 02/08/06

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.95	U	N	P
7440-38-2	Arsenic	0.95	U	E	P
7440-39-3	Barium	61.9	E	J	P
7440-41-7	Beryllium	0.24	U	J	P
7440-43-9	Cadmium	0.56	E	J	P
7440-47-3	Chromium	27.9	E		P
7440-50-8	Copper	8.6	E		P
7439-92-1	Lead	4.4	E	J	P
7440-02-0	Nickel	6.9	E	J	P
7782-49-2	Selenium	1.4	U	J	P
7440-22-4	Silver	1.4	U		P
7440-28-0	Thallium	0.95	U	J	P
7440-62-2	Vanadium	43.2	E	J	P
7440-66-6	Zinc	42.1	E	J	P
7439-97-6	Mercury	0.034	U	J	CV

KMR 4/3/06

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3/29/06

Comments:

KMR 3/29/06

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-7-4-7.5

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-15

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.98	U	N	P
7440-38-2	Arsenic	2.7	E		P
7440-39-3	Barium	89.6	E	J	P
7440-41-7	Beryllium	0.24	U	J	P
7440-43-9	Cadmium	0.65	E	J	P
7440-47-3	Chromium	24.9	E		P
7440-50-8	Copper	16.7	E		P
7439-92-1	Lead	4.8	E	J	P
7440-02-0	Nickel	6.7	E	J	P
7782-49-2	Selenium	1.5	U	J	P
7440-22-4	Silver	1.5	U		P
7440-28-0	Thallium	0.98	U	J	P
7440-62-2	Vanadium	37.5	E	J	P
7440-66-6	Zinc	32.3	E	J	P
7439-97-6	Mercury	0.037	U	J	CV

KML 4/3/06

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3/29/06

Comments:

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3/29/06

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-9-0.5-3

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM

Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-18

Level (low/med): MED

Date Received: 02/08/06

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	U	H	P
7440-38-2	Arsenic	3.2		E	P
7440-39-3	Barium	43.8		E J	P
7440-41-7	Beryllium	0.27	U	J	P
7440-43-9	Cadmium	0.27	U	E J	P
7440-47-3	Chromium	13.3		E	P
7440-50-8	Copper	11.5		E	P
7439-92-1	Lead	20.1		E J	P
7440-02-0	Nickel	5.2		E J	P
7782-49-2	Selenium	1.6	U	J	P
7440-22-4	Silver	1.6	U		P
7440-28-0	Thallium	1.1	U	J	P
7440-62-2	Vanadium	19.4		E J	P
7440-66-6	Zinc	41.5		E J	P
7439-97-6	Mercury	0.034	U	J	CV

KMR 4/3/06

KMR
3/22/06

Comments:

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3/22/06

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MEW-9-4-8

Lab Name: Mitkem Corporation

Contract: 36800318.

Lab Code: MITKEM Case No.

SAS No.:

SDG No.: ME0139

Matrix (soil/water): SOIL

Lab Sample ID: E0139-19

Level (low/med): MED

Date Received: 02/08/06

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.89	U	N	P
7440-38-2	Arsenic	2.8	E		P
7440-39-3	Barium	53.1	E	J	P
7440-41-7	Beryllium	0.22	U	J	P
7440-43-9	Cadmium	0.40	E	J	P
7440-47-3	Chromium	19.2	E		P
7440-50-8	Copper	13.7	E		P
7439-92-1	Lead	3.7	E	J	P
7440-02-0	Nickel	5.6	E	J	P
7782-49-2	Selenium	1.3	U	J	P
7440-22-4	Silver	1.3	U		P
7440-28-0	Thallium	0.89	U	J	P
7440-62-2	Vanadium	25.4	E	J	P
7440-66-6	Zinc	27.2	E	J	P
7439-97-6	Mercury	0.030	U	J	CV

KAC 4/3/06

KAC 3/29/06

Comments:

FC 3/29/06

Attachment III
Data Validation Worksheets

REGION I REVIEW OF INORGANIC
CONTRACT LABORATORY DATA PACKAGE

The hardcopied (laboratory name) Mitkem data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No. Brownfields SAS No. _____ Sampling Date(s) 2/7/06, 2/8/06
SDG. No. E0139 Matrix SO Shipping Date(s) 2/8/06
No. of Samples 20 Date Rec'd by Lab 2/8/06

Traffic Report Nos: MEB-1-0-2, MEB-1-4-6, MEB-2-0-1.5, MEB-2-4-7, MEW-3-0-2.2, MEK-3-0-2.2, MEW-3-4-7.5, MEW-4-0-2.5, MEW-4-4-8, MEW-5-0-2.7, MEW-5-4-8, MEB-6-0-3,
Trip Blank No.: — (cont) MEB-6-4-8, MEW-7-1-1.7, MEW-7-4-7.5, →
Equipment Blank No.: — (cont) MEB-8-1-3.2, MEB-8-4-7.4, MEW-9-0.5-3, →
Field Dup Nos: MEW-3-0-2.2/MEK-3-0.2.2 (cont) MEW-9-4-8, MEB-10-2-3
PE Sample Nos: —

SOW No. ⁵⁰⁸⁴⁶ 6010B/7471 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- Data Completeness
- Holding Times
- Calibrations
- Blanks
- ICP Interference Check Results
- Matrix Spike Recoveries
- Laboratory Duplicates
- Field Duplicates
- Lab Control Sample Results
- Furnace AA Results
- ICP Serial Dilution Results
- Detection Limit Results
- Sample Quantitation

Overall Comments: _____

Definitions and Qualifiers:

- A - Acceptable Data
- J - Approximate data due to quality control criteria
- R - Reject data due to quality control criteria
- U - Analyte not detected

Reviewer: K Rutledge Date: 3/7/06

REGION I

Data Review Worksheets

Data Validation Worksheet Cover Page - Page 2

Check if all criteria are met and no hardcopy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

Inorganics Worksheets

- I. DATA COMPLETENESS
- II. HOLDING TIMES
- III A. INSTRUMENT CALIBRATION (Section 1)
- III B. INSTRUMENT CALIBRATION (Section 2)
- III C. INSTRUMENT CALIBRATION (Section 3)
- IV A. BLANK ANALYSIS RESULTS (Section 1-3)
- IV B. BLANK ANALYSIS RESULTS (Section 4)
- V A. ICP INTERFERENCE CHECK SAMPLE (Sections 1 & 2)
- V B. ICP INTERFERENCE CHECK SAMPLE (Section 3)
- VI. MATRIX SPIKE
- VII. LABORATORY DUPLICATES
- VIII. FIELD DUPLICATES
- IX. LABORATORY CONTROL SAMPLE
- NA_X A. FURNACE ATOMIC ABSORPTION ANALYSIS
- XI. INDUCTIVELY COUPLED PLASMA (ICP) SERIAL DILUTION ANALYSIS
- XII. DETECTION LIMIT ANALYSIS
- NA XIII. SAMPLE QUANTITATION
- NA XIV. ACCURACY CHECK (Performance Evaluation Sample)

I certify that all criteria were met for the worksheets checked above.

Signature: K. Rutherford Name: Kristin Rutherford

Date: 3/7/06

REGION I
Data Review Worksheets

I. DATA COMPLETENESS

MISSING INFORMATION

DATE LAB CONTACTED

DATE REC'D

- ① No receipt date/time on COCs. Receipt date was on Sample Condition Form so dated COCs were not requested.
- ② Control Limits for mercury on initial and continuing calibration Form 2A should be 90-110%, not 8-120%.
All criteria was met for 90-110%, resubmittal not requested.

R 3/27/06

REGION I
Data Review Worksheets

II. HOLDING TIMES

Complete table for all samples and circle the Analysis date for samples not within criteria.

All criteria met.

SAMPLE ID	DATE SAMPLED	HG DATE ANALYSIS	CYANIDE DATE ANALYSIS SILVER	OTHERS DATE ANALYSIS	pH	ACTION
MEB-1-0-2	2-7-06	2-17-06	2-17-06	2-16-06	NA	None
MEB-1-4-6						
MEB-2-0-1.5						
MEB-2-4-7						
MEW-3-0-2.2						
MEK-3-0-2.2						
MEW-3-4-7.5						
MEW-4-0-2.5						
MEW-4-4-8						
MEW-5-0-2.7						
MEW-5-4-8						
MEB-6-0-3						
MEB-6-4-8						
MEW-7-1-1.7						
MEW-7-4-7.5	↓	↓	↓	↓	↓	↓

METALS - 180 DAYS FROM SAMPLE COLLECTION
MERCURY - 28 DAYS FROM SAMPLE COLLECTION
CYANIDE - 14 DAYS FROM SAMPLE COLLECTION

NA - not applicable - ^{Soil} samples. Not preserved.
KML
3/6/06

ACTION:

1. If holding times are exceeded all positive results are estimated (J) and non-detects are estimated (UJ).
2. If holding times are greatly exceeded, the reviewer may determine that non-detects are usable (R).

3/27/06

