

FINAL INVESTIGATION REPORT

FOR THE

INVESTIGATION AND DESIGN OF THE INTERIM REMEDIAL MEASURE FOR THE VADOSE ZONE

AT THE

**570 MAIN STREET
MANUFACTURING FACILITY
WESTBURY, NEW YORK
NYSDEC Site Code #130043A**

FEBRUARY 1997

VOLUME II

Prepared For:

IMC EASTERN CORP.

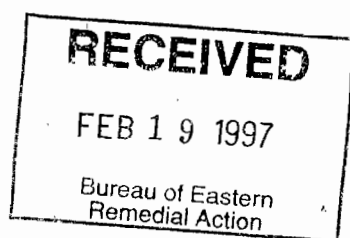
Prepared By:

**HULL & ASSOCIATES, INC.
6130 WILCOX ROAD
DUBLIN, OHIO 43016
(614) 793-8777**



APPENDIX A

Boring Logs





Land Tech Remedial, Inc.

Boring Log No.: SB-1

Client:

IMC Magnetics

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole

Project No.:

NMB004

Permit No.:

NA

Date:

5/7/96

Page:

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6' 5

3:15 PM

2.4

Loose Light Brown Medium Sand
with gravel and cobbles, dry.

SS-2
9-11' 10

3:30 PM

10

Loose Brown, Medium Sand
with gravel and trace quartz
cobbles, dry.

SS-3
14-16' 15

4:10 PM

14.3

Loose Brown Medium Sand with
coarse sand, gravel and trace
cobbles (yellow + rose quartz) dry.

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4"
Hole Depth: 16'

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS: Sample I.D. #5 =
B004-SB-1-SS-1 → SS-3-L218.
Ground detected w/ PID, PID readings
adjusted to account for same.



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-2

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/8/96 & 5/9/96

Page:

I of 2

Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	9:10A (5/8/96)	4.0	(5-5.5') Loose Brown Fine Sand with gravel, dry. (fill) (5.5-6') Loose Light Brown Medium Sand with coarse sand and gravel
SS-2 9-11' 10	9:20A (5/8/96)	4.7	(9.5-10') Dense Light Brown Silty Sand w/ trace gravel, dry. (10-11') Loose Yellowish Orange Red. Sand w/ coarse sand, gravel, FeO ₂ staining, dry.
SS-3 1-16' 15	11:10A (5/8/96)	4.8	Loose Light Brown Medium Sand w/ coarse sand, gravel, trace cobblers, minor FeO ₂ staining, dry.
SS-4 1-21' 20	11:30A (5/8/96)	5.1	Loose Light Brown Medium Sand w/ coarse sand, trace gravel, minor Fe O ₂ staining, slightly moist.
SS-5 24-26' 25	8:45A (5/9/96)	3.6	Loose Light Brown Medium Sand w/

Bore Hole Data:	
Drilling Company:	LTR
Driller:	Dale Roose
Drilling Method:	Geoprobe
Hole Diameter:	1 3/4"
Hole Depth:	26 feet
Well Data:	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS: Need to install boring
seeper based on analytical data.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-2

Client: _____

Logged By: _____

Project Name: _____

Project No.: _____

Project Location: _____

Permit No.: _____

Date: _____

Page: 2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-5

24-26'

*Coarse Sand, trace gravel, minor
FeO₂ staining, slightly moist.*

Bore Hole Data:

Drilling Company: _____

Driller: _____

Drilling Method: _____

Hole Diameter: _____

Hole Depth: _____

Well Data:

Well Casing

Casing Type: _____

Casing Diameter: _____

Casing Length: _____

Casing Interval: _____

Screen

Screen Type: _____

Screen Diameter: _____

Screen Slot: _____

Screen Length: _____

Screen Interval: _____

Filter Media

Media Type: _____

Composition: _____

Volume Used: _____

Filter Pack Interval: _____

Grout Seal

Bentonite Interval: _____

Cement Interval: _____

Well Head

Concrete Pad: _____

Size: _____

Road Box: _____

Size: _____

Depth To Water

Date: _____

Time: _____

DTW: _____

Well Development

Method: _____

Volume Purged: _____

Rate: _____

Date: _____

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-3

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/8/96 & 5/9/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	9:35A (5/8/96)	5.6	Dense brown very fine silty sand w/ trace coarse gravel, slightly moist.
SS-2 9-11' 10	9:50A (5/8/96)	6.4	Loose Brown Medium Sand w/ gravel, trace silt, potential FeO ₂ staining, dry.
SS-3 14-16' 15	2:45P (5/8/96)	6.5	Loose Light Brown Medium Sand, gravel, trace very fine silty sand, dry.
SS-4 19-21' 20	9:20A (5/9/96)	3.4	Loose Light Brown Medium Sand w/ coarse sand, trace gravel, dry.
SS-5 24-26' 25	9:40A (5/9/96)	1.5	Loose Light Brown Medium

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 26 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Boring complete, based on analytical data.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-3

Client:

Project Name:

Project Location:

Logged By:

Project No.:

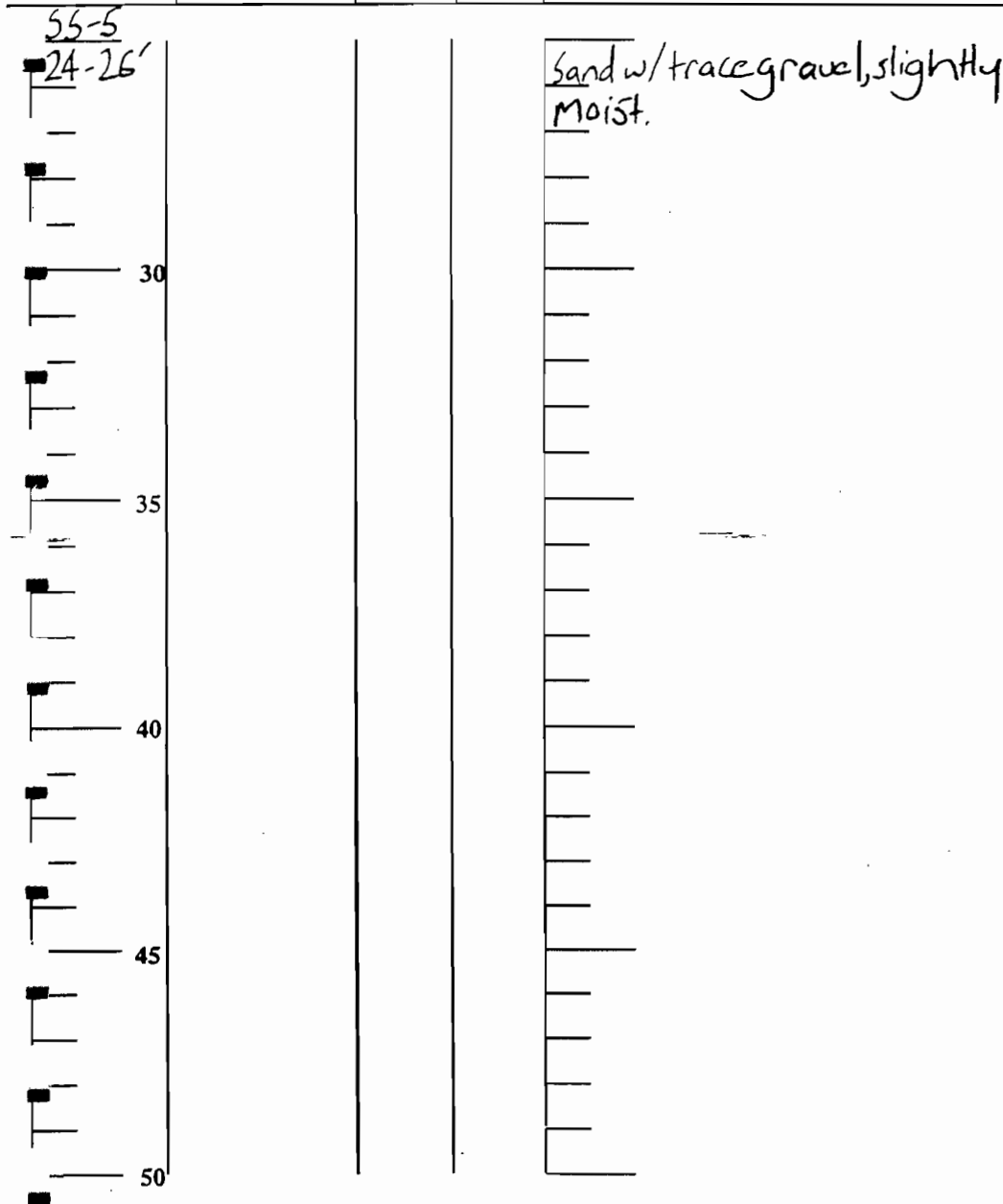
Permit No.:

Date:

Page:

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Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------	-----------------	------------------	----------------	------------------------



Bore Hole Data:
Drilling Company:
Driller:
Drilling Method:
Hole Diameter:
Hole Depth:
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-4

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/8/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	10:20A	4.6	Dense Brown Very Fine Silty Sand w/trace coarse gravel, slightly moist.
SS-2 9-11' 10	10:35A	2.2	Loose Light Brown Medium Sand w/trace gravel, dry.
SS-3 14-16' 15	2:10P	4.3	Loose Light Brown Coarse Sand w/medium sand, trace gravel, dry.
20			
25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 16 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: 2 successive clean
samples, boring complete.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-5

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole
Project No.: NMB004
Permit No.: NA
Date: 5/8/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	12:25D	4.8	Loose Brown Medium Sand w/ coarse sand, gravel, trace silt, FeO ₂ staining, dry
SS-2 9-11'	12:40P	4.2	Loose Light Brown Medium Sand w/coarse sand, gravel, minor FeO ₂ staining, slightly moist.
12.5			Attempted to install boring deeper, encountered refusal. Boring Complete.
15			
20			
25			

Bore Hole Data:	
Drilling Company:	LTR
Driller:	Dale Roos
Drilling Method:	Geoprobe
Hole Diameter:	1 3/4 inches
Hole Depth:	12.5 feet
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS: Boring Complete,
due to drilling refusal.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-6

Client: NMB USA, Inc.
 Project Name: IMC Magnetics
 Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (2218)
 Project No.: NMB004
 Permit No.: NA
 Date: 5/9/96
 Page: 1 of 1

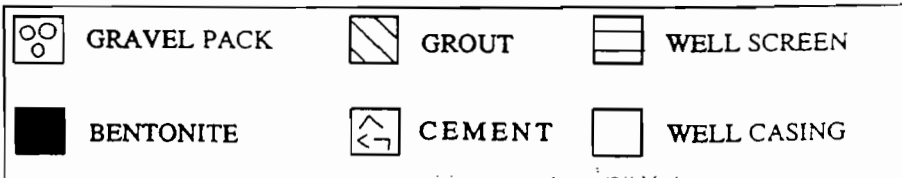
Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	10:55A	3.1	Dense Light Brown Very fine silty sand w/ trace of gravel, interbedded silt layers, dry.
SS-2 9-11' 10	11:10A	7.8	Loose Light Brown medium sand w/ gravel, minor FeO ₂ staining, dry.
SS-3 14-16' 15	1:40A	0.6	Loose Light Brown Coarse Sand, gravel, dry.
SS-4 19-21' 20	2:10A	2.4	Loose Light Brown Medium Sand, gravel, FeO ₂ staining, dry.
25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Boring needs to be installed deeper based on analytical data.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING





Land Tech Remedial, Inc.

Boring Log No.: SB-8

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Pade (1218)
Project No.: NMB004
Permit No.: NA
Date: 5/9/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	12:10P	3.0	Loose Light Brown Medium Sand w/trace gravel, FeO ₂ staining, slightly moist
SS-2 9-11' 10	12:20P	1.7	Loose Light Brown Medium Sand w/coarse sand, trace gravel, minor FeO ₂ staining, slightly moist.
15			
20			
25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Boring Complete
Based on Analytical Data.

GRAVEL PACK

GROUT

WELL SCREEN

BENTONITE

CEMENT

WELL CASING

COMMENTS: Boring needs to be installed deeper based on analytical data.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-11

Client:

NMB USA, Inc.

Project Name:

INC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/10/96 & 6/10/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	8:15A (5/10)	48.2	4-4.5' - Soft Light Brown silt w/ trace fine gravel, moist. 4.5-5.25' - Medium Dense sand Light Brown fine sand w/coarse sand, trace fine gravel, slightly moist.
SS-2 4-11'	10	8:25A (5/10)	29.7	Loose Light Brown Medium Sand w/coarse sand, fine sand, trace gravel, minor Fe ₂ O ₃ staining, slightly moist.
SS-3 14-16'	15	10:35 (6/10)	29.1	Loose Yellowish Orange Med. Sand w/some fine sand, little coarse sand, trace gravel, dry.
SS-4 19-21'	20	11:05 (6/10)	14.6	Medium Unconsolidated Yellowish Orange Fine Sand w/coarse med. sand, trace coarse sand, gravel, dry.
SS-5 24-26'	25	11:40 (6/10)	8.3	Loose Yellowish Orange Med. Sand w/

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 31 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-11

Client: NMB USA, Inc.

Logged By: _____

Project Name: _____

Project No.: _____

Project Location: _____

Permit No.: _____

Date: _____

Page: 2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-5

24-26'

some coarse sand, little fine sand, trace gravel, dry.

SS-6

24-31'

12:20
(6/10)

5.7

Loose Yellowish Orange Med. Sand and Fine Sand w/ little coarse sand, trace gravel, minor FeO₂ staining, dry.

Bore Hole Data:

Drilling Company: _____

Driller: _____

Drilling Method: _____

Hole Diameter: _____

Hole Depth: _____

Well Data

Well Casing

Casing Type: _____

Casing Diameter: _____

Casing Length: _____

Casing Interval: _____

Screen

Screen Type: _____

Screen Diameter: _____

Screen Slot: _____

Screen Length: _____

Screen Interval: _____

Filter Media

Media Type: _____

Composition: _____

Volume Used: _____

Filter Pack Interval: _____

Grout Seal

Bentonite Interval: _____

Cement Interval: _____

Well Head

Concrete Pad: _____

Size: _____

Road Box: _____

Size: _____

Depth To Water

Date: _____

Time: _____

DTW: _____

Well Development

Method: _____

Volume Purged: _____

Rate: _____

Date: _____

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-12

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

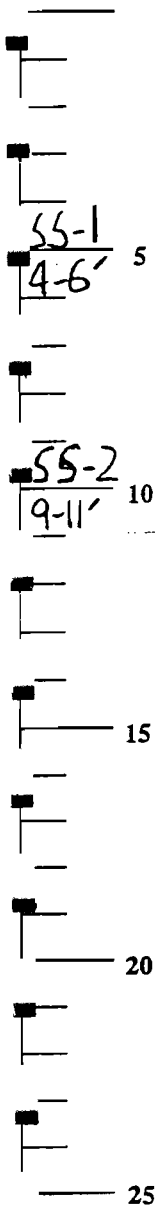
Date:

5/10/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



8:45A

6.1

Loose yellowish Orange Medium
sand w/coarse sand, trace gravel
and brown fine sand (moist), minor
Fe₂O₃ staining, slightly moist

8:55A

12.3

Loose Light Brown Medium Sand
w/coarse sand, trace gravel, dry.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-13

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole
Project No.: NMB004
Permit No.: NA
Date: 5/10/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

33-1 4-6	5	9:35A	6.7	Loose Light Brown Medium Sand w/ trace fine gravel and silt, slightly moist.
33-2 9-11	10	9:50A	7.8	9.5-10.25' - Loose Olive Gray Medium Sand w/ coarse sand, dry. 10.25-11' - Loose Brown Medium Sand w/ coarse sand, trace fine gravel, minor FeO ₂ staining, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-1

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris

Project No.:

NMBO-

Permit No.:

NA

Date:

5/10/95

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	10:30A (5/10)	9.0	4-5.25' - Loose Light Brown Medium Sand w/trace gravel, slightly moist. 5.25-5.75' - Dense Tan Fine Silty Sand w/ trace gravel, moist.
SS-2 9-11' 10	10:45A (5/10)	7.9	Loose Light Brown Med. Sand w/coarse sand, trace gravel, dry.
SS-3 14-15' 15	13:00 (6/10)	7.2	Loose Yellowish Orange Med. Sand and fine sand, trace gravel, and gravel, dry.
SS-4 19-21' 20	13:25 (6/10)	6.7	Loose Yellowish Orange Med. Sand and fine sand w/some c. sand, little gravel, no staining, dry.
25			

Bore Hole Data:	
Drilling Company:	
Driller: <u>Dale</u>	
Drilling Method: <u>Hand</u>	
Hole Diameter: <u>3.4</u>	
Hole Depth: <u>21 feet</u>	
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head:	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

GRAVEL PACK	GROUT	WELL
BENTONITE	CEMENT	WELL

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-16

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (2218)
Project No.: NMB004
Permit No.: NA
Date: 5/10/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	12:15P	5.0	Loose Light Brown Medium Sand w/coarse sand, trace gravel, slightly moist.
SS-2 9-11' 10	12:30P	4.5	Loose Light Brown Medium Sand w/coarse sand, trace gravel, minor FeO ₂ staining, slightly moist.
15			
20			
25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Poos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-17

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/10/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	1:40P	9.0	5-5.5' Medium Dense Brown fine silty Sand w/ trace coarse sand, dark brown surficial staining, slightly moist.
SS-2 9-11' 10	1:50P	8.6	5.5-6' Loose Light Brown Medium Sand w/ coarse sand, trace gravel, some brown dense silt, minor Fe ₂ O ₃ staining, slightly moist.
			Loose Light Brown Medium Sand w/ coarse sand, trace gravel and cobbles, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-18

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Vestbury, NJ

Permit No.:

NA

Date:

5/13/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

3-1 4-6'	5	9:40A	2.6	4.75-5.25' - Medium Dense Brown fine Silty Sand w/ trace coarse sand & gravel, moist. 5.25-6' - Loose yellowish orange feld. Sand w/ some coarse sand, trace gravel, slightly moist.
3-2 7-11'	10	9:50A	4.2	Loose light brown feld. Sand w/ coarse sand, trace gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geo probe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-19

Client: NMB USA, Inc.
 Project Name: IMC Magnetics
 Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
 Project No.: NMB004
 Permit No.: NA
 Date: 5/13/96
 Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	10:10A	2.8	Loose light brown med. sand/coarse sand, trace brown fine silty sand, slightly moist.
SS-2 9-11'	10:20A	5.6	Loose light brown med. sand/coarse sand, trace gravel, minor FeO ₂ staining, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

 GRAVEL PACK	 GROUT	 WELL SCREEN
 BENTONITE	 CEMENT	 WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-20

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NNB004
Permit No.: NA
Date: 5/13/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	10:40A	0.0	Loose light brown med. sand w/ coarse sand, gravel, slightly moist.
55-2 9-11'	10	10:50A	2.8	Loose yellowish orange med. sand w/ some coarse sand, trace gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-21

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NMB004
Permit No.: NA
Date: 5/13/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1
4-6' 5
55-2
9-11' 10
15
20
25

11:15A

4.2

11:25A

2.4

Dense Brown Fine Silty Sand w/
med. sand, coarse sand, trace
gravel, moist

Loose Light Brown Med. Sand w/
Coarse Sand, trace gravel and
fine sand, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Hoos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-22

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NMB004
Permit No.: NA
Date: 5/13/96 & 5/22/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	11:50A (5/13)	24.5	Medium Dense Brown fine Silty Sand w/trace med. sand, coarse sand, gravel, black surficial staining entire sample horizon, slightly moist.
SS-2 9-11' 10	12:10P (5/13)	2.4	Very loose Light Brown coarse sand w/ med. sand, trace gravel, slightly moist.
SS-3 14-16' 15			No Sample. See field notes for 5/22/96
SS-4 19-21' 20	13:35 (5/22)	9.1	Loose Yellowish orange Medium Sand and fine sand w/ little coarse sand, trace gravel, dry
25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Haas
Drilling Method: Geoprobe
Hole Diameter: 3/4 inches
Hole Depth: 21 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Boring complete
based on analytical data and
drilling difficulty.

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-22

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NMB004
Permit No.: NA
Date: 5/13/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	11:50A	24.5	Medium Dense Brown fine Silty Sand w/trace med. sand, coarse sand gravel, black surficial staining entire sample horizon, slightly moist.
55-2 9-11'	10	12:10P	2.4	Very loose Light Brown coarse sand w/ med. sand, trace gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTK
Driller: Dale Hoos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Black surficial staining
on 55-1 sample similar to SB-17-55-1.
This sample revealed ~2600 ppb PCE
@ dilution factor of 10. These data
are not to be used for O&G data.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-23

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

TMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

N/A

Date:

5/13/96 & 5/22/96

Page:

1 of 2 6/10/96

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 5
4-6'

SS-2 10
9-11'

SS-3 15
14-16'

SS-4 20
19-21'

25

1:20P
(5/13)

2.4

1:30P
(5/13)

13.8

12:03
(5/22)

2.8

Loose Light Brown Med. Sand w/
coarse sand, trace gravel and brown
fine silty sand, slightly moist

Loose Brown fine silty sand w/
med. and coarse sand, trace gravel
slightly moist

No sample. see field notes for
5/22/96.

Loose Yellowish Orange Medium Sand
and fine sand w/ trace coarse
sand and g. uel, dry.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Rows
Drilling Method: Geoprobe
Hole Diameter: 1.75 inches
Hole Depth: 28 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head:
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: **SB-23**

Client: _____

Project Name: _____

Project Location: _____

Logged By: _____

Project No.: _____

Permit No.: _____

Date: _____

Page: **2 of 2**

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-5

26-28'

15:30

2.8

**Loose Yellowish Orange Med. Sand
and Fine Sand w/ little coarse
sand, trace gravel, minor Fe₂O₃
staining, dry.**

Bore Hole Data:

Drilling Company: _____

Driller: _____

Drilling Method: _____

Hole Diameter: _____

Hole Depth: _____

Well Data

Well Casing _____

Casing Type: _____

Casing Diameter: _____

Casing Length: _____

Casing Interval: _____

Screen

Screen Type: _____

Screen Diameter: _____

Screen Slot: _____

Screen Length: _____

Screen Interval: _____

Filter Media

Media Type: _____

Composition: _____

Volume Used: _____

Filter Pack Interval: _____

Grout Seal

Bentonite Interval: _____

Cement Interval: _____

Well Head

Concrete Pad: _____

Size: _____

Road Box: _____

Size: _____

Depth To Water

Date: _____

Time: _____

DTW: _____

Well Development

Method: _____

Volume Purged: _____

Rate: _____

Date: _____

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-24

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NMB0004
Permit No.: NA
Date: 5/13/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	2:10P	4.8	Loose light brown med. sand w/ course sand, trace gravel and fine silty sand, slightly moist.
SS-2 4-11	10	2:25P	5.6	Medium Dense Brown Fine Silty sand w/ some med. sand, trace coarse sand and gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTK</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

**Land Tech Remedial, Inc.**Soil Boring/Well Log No.: **SB-25**

Client: **NMB USA, Inc.**
Project Name: **IMC Magnetics**
Project Location: **570 Main Street, Westbury, NY**

Logged By: **Chris Poole (L218)**
Project No.: **NMB004**
Permit No.: **NA**
Date: **May 14, 1996**

Depth low S. face	Sample Collection Time	PID Readings (ppm)	Blow Counts	Field Description of Soil	Bore Hole Data
0					Drilling Method: Geoprobe
					Hole Diameter: 1 3/4 inches
					Depth: 50 feet
					Well Data
					Surface Casing
					Casing Type:
					Casing Diameter:
					Casing Length:
					Casing Interval:
					Well Casing
					Casing Type:
					Casing Diameter:
					Casing Length:
					Casing Interval:
					Screen
					Screen Type:
					Screen Diameter:
					Screen Slot:
					Screen Length:
					Screen Interval:
					Filter Media
					Media Type:
					Composition:
					Volume Used:
					Filter Interval:
					Grout Seal
					Bentonite Interval:
					Cement Interval:
					Well Head
					Concrete Pad
					Size:
					Road Box:
					Size:
					Depth to Water
					Date:
					Time:
					Depth:
					Well Development
					Method:
					Duration:
					Rate:
					Date:
					Legend
					Concrete Pad
					Casing Interval
					Screen Interval
					Cement Interval
					Bentonite Interval
					Surface Casing
					Filter Pack

SS-1	5	7:50 AM	133	Dense Brown Fine Silty Sand w/ some med. sand, trace gravel, moist.
2		7:58 AM	126	Dense Brown Fine Silty Sand w/ med. sand and coarse sand, trace gravel, moist.
SS-3	10	8:05 AM	1,340	Medium Dense Brown Fine Silty Sand w/ medium sand, trace coarse sand, wet.
4		8:10 AM	8,786	Medium Dense Brown Medium Sand w/ coarse sand, trace gravel, silt, moist.
SS-5		8:20 AM	7,989	Loose Brown Medium Sand w/ coarse sand, trace gravel and fine silty sand, moist.
6	15	8:30 AM	1,765	Loose Brown Medium Sand w/ some coarse sand, trace gravel, slightly moist.
SS-7		8:35 AM	8,044	Loose Light Brown Medium Sand w/ coarse sand, gravel, trace cobbles, slightly moist.
8		8:45 AM	2,812	Loose Yellowish Orange Medium Sand w/ some coarse sand, trace gravel, s. moist.
SS-9	20	8:55 AM	6,957	Loose Yellowish Orange Medium Sand w/ some c. sand, f. sand, trace gravel, s. moist.
10		9:25 AM	2,838	(22.25-23.25) - Same As Above.
SS-10				(23.25-24) - Loose Tan Fine Sand w/ some medium sand, trace c. sand, slightly moist.
11		9:40 AM	28.7	Loose Tan Fine Sand w/ some medium sand, trace coarse sand, slightly moist.
SS-12	30	10:00 AM	11.5	Loose Tan Medium Sand w/ coarse sand, some fine sand, trace gravel, slightly moist.
13		10:25 AM	3,119	Loose Tan Medium Sand w/ fine sand, some coarse sand, trace coarse gravel, dry.
SS-14		10:30 AM	12.1	Loose Tan Fine Sand w/ medium sand, some coarse gravel, dry.
SS-15	35	10:55 AM	2.5	Loose Tan Fine Sand w/ some medium sand, trace coarse sand and fine gravel, dry.
16		11:10 AM	6.6	Loose Tan Fine Sand w/ trace medium sand, dry.
SS-17	40	11:25 AM	6.3	Loose Tan Fine Sand w/ some medium sand, slightly moist.
18		11:45 AM	6.2	Loose Tan Fine Sand w/ some medium sand, slightly moist.
SS-19	45	12:20 PM	4.9	Loose Tan Fine Sand w/ some medium sand, slightly moist.
20		12:45 PM	5.8	Loose Tan Fine Sand w/ some medium sand, slightly moist.
SS-21	50	1:30 PM	193	Loose Tan Fine Sand w/ some medium sand, trace coarse sand and gravel, slightly moist.

Remarks: I did not include any information with regards to surficial soil sample staining (hydrocarbon and iron oxide) on the boring log due to space limitations. This information, however, is included in my field notes for 5/14/96.

**Land Tech Remedial, Inc.**Soil Boring/Well Log No.: **SB-25A**Client: **NMB USA, Inc.**Project Name: **IMC Magnetics**Project Location: **570 Main Street, Westbury, NY**Logged By: **Chris Poole (L218)**Project No.: **NMB004**Permit No.: **NA**Date: **May 14, 1996**

Depth :low face	Sample Collection Time	PID Readings (ppm)	Blow Counts	Field Description of Soil
0				
5				
10				
15				
20				
SS-1 -26'	2:45 PM	7.3		Loose Tan Medium Sand w/ fine sand, some coarse sand, trace gravel, slightly moist.
30				
35				
SS-2 6-38'	3:10 PM	4.3		Loose Tan Fine Sand w/ some medium sand, slightly moist.
40				
45				
50				

Bore Hole Data
Drilling Method: **Geoprobe**
Hole Diameter: **1 3/4 inches**
Depth: **38 feet**
Well Data
Surface Casing
Casing Type: _____
Casing Diameter: _____
Casing Length: _____
Casing Interval: _____
Well Casing
Casing Type: _____
Casing Diameter: _____
Casing Length: _____
Casing Interval: _____
Screen
Screen Type: _____
Screen Diameter: _____
Screen Slot: _____
Screen Length: _____
Screen Interval: _____
Filter Media
Media Type: _____
Composition: _____
Volume Used: _____
Filter Interval: _____
Grout Seal
Bentonite Interval: _____
Cement Interval: _____
Well Head
Concrete Pad: _____
Size: _____
Road Box: _____
Size: _____
Depth to Water
Date: _____
Time: _____
Depth: _____
Well Development
Method: _____
Duration: _____
Rate: _____
Date: _____
Legend
 Concrete Pad
 Casing Interval
 Screen Interval
 Cement Interval
 Bentonite Interval
 Surface Casing
 Filter Pack

Remarks: I did not include any information with regards to surficial soil sample staining (hydrocarbon and iron oxide) on the boring log due to space limitations. This information, however, is included in my field notes for 5/14/96. SB-25A installed to complete the 50' subsurface geological characterization



Land Tech Remedial, Inc.

Boring Log No.: SB-26

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

Date:

5/15/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	8:45A		Dense Brown Fine Silty Sand/ some medium sand and coarse sand, trace gravel, moist
SS-2 14-16'	15	8:55A		Loose Light Brown Medium Sand/ coarse sand, trace gravel, very moist.
SS-3 24-26'	25	9:20A		Loose Light Brown Medium Sand/ coarse sand and fine sand, trace gravel, minor iron stainings, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 46 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: Metals delineation
Boring # 1.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-26

Client: _____

Logged By: _____

Project Name: _____

Project No.: _____

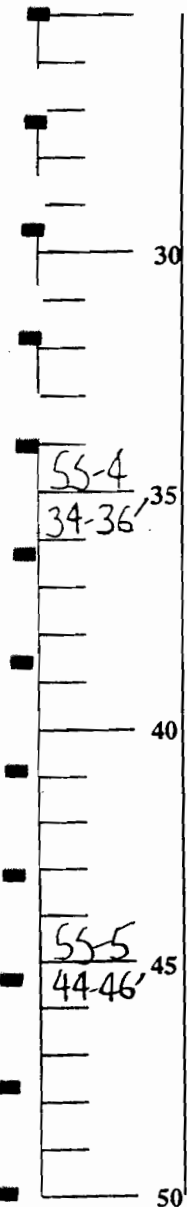
Project Location: _____

Permit No.: _____

Date: _____

Page: 2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



9:50A

11:00A

Medium Dense Tan Fine Sand w/
some medium sand trace gravel,
slightly moist.

Medium Dense Tan Fine Sand w/
some medium sand, slightly moist.

Bore Hole Data:
Drilling Company:
Driller:
Drilling Method:
Hole Diameter:
Hole Depth:
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-27

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L2)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

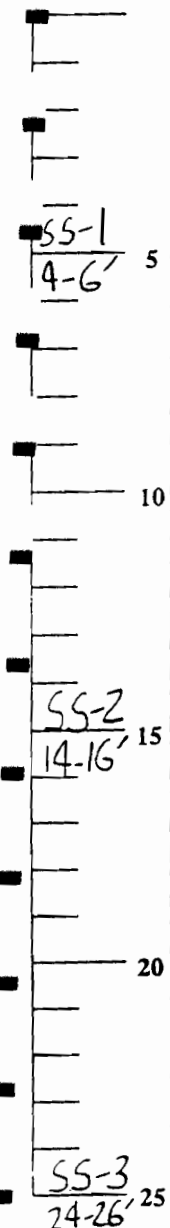
Date:

5/15/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



12:15P

12:30P

Dense Brown Fine Silty Sand w/
some medium sand, trace coarse
sand, visually impacted black
staining, slightly moist.

Loose Light Brown Medium Sand
w/some fine sand, trace coarse
sand and gravel, slightly moist.

No Recovery. See field notes 5/15.

Bore Hole Data:	
Drilling Company:	LTR
Driller:	Dale Rows
Drilling Method:	Geoprobe
Hole Diameter:	1 3/4 inches
Hole Depth:	46 feet
Well Data:	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS: Metals Delineation
Boring #2.

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-27

Client: _____

Logged By: _____

Project Name: _____

Project No.: _____

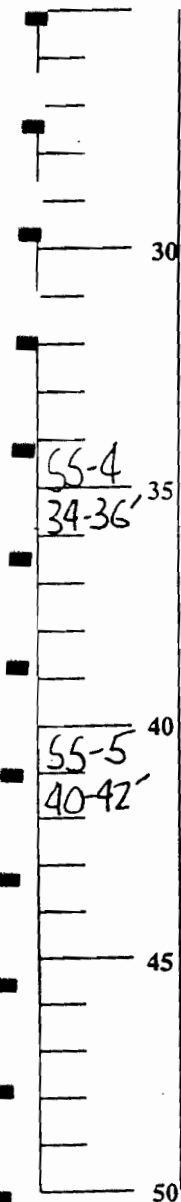
Project Location: _____

Permit No.: _____

Date: _____

Page: 2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



2:30P

3:15P

Loose Light + Brown Medium Sand and
Fine Sand w/ some coarse sand,
trace gravel, minor Fe₂O₃ staining,
dry.

Loose Yellowish Orange Fine Sand w/
some medium sand, trace coarse
sand and fine gravel, dry.

Bore Hole Data:
Drilling Company:
Driller:
Drilling Method:
Hole Diameter:
Hole Depth:
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: See notes for
explanation of SS-5 sample
depth.

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-28

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

570 Main St.
Westbury, NY

Permit No.:

NA

Date:

5/15/96 + 5/16/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	12:10P (5/15/96)	23.7
SS-2 9-11'	10	9:00A (5/16/96)	5.9
	15		
	20		
	25		

4.5-5.25' - Dense Light Brown Fine
Silty Sand w/ trace gravel
slightly moist.
5.25-6' - Loose Yellowish Orange
fine sand w/ medium sand,
little coarse sand, trace gravel
minor FeO₂ staining, s. moist.
Loose Light Brown Medium and Coarse
Sand w/ some fine sand, trace
gravel, moist.

Bore Hole Data:	
Drilling Company:	<u>LTR</u>
Driller:	<u>Dale Boos</u>
Drilling Method:	<u>Geoprobe</u>
Hole Diameter:	<u>1 3/4 inches</u>
Hole Depth:	<u>11 feet</u>
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: **SB-29**

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

**570 Main St,
Westbury, NY**

Permit No.:

NA

Date:

5/16/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



9:15A

5.9

9:30A

6.5

**4.25'-5.25' - Medium Dense Yellowish Orange
Fine Sand w/ trace gravel,
potential surficial staining,
dry.
5.25'-6' - Dense Tan Fine Silty Sand,
Trace Coarse Sand, Moist.**

**Loose Light Brown Medium Sand w/
some fine and coarse sand, trace gravel**

Bore Hole Data:

Drilling Company: **LTR**
Driller: **Dale Rous**
Drilling Method: **Geoprobe**
Hole Diameter: **1 3/4 inches**
Hole Depth: **11 feet**

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: **SB-30**

Client:

Project Name:

Project Location:

NMB USA, Inc.
IMC Magnetics
570 Main St.
Westbury, NY

Logged By:

Project No.:

Permit No.:

Date:

Page:

Chris Poole (L218)

NMB 004

NA

5/16/96

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Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------	-----------------	------------------	----------------	------------------------

5	10:00A	13.3	Loose Light Brown Medium Sand w/ some fine and coarse sand, trace gravel and silt, minor Fe ₂ O ₃ staining, slightly moist.
10	10:10A	10.3	Loose Yellowish Orange Medium and Coarse Sand w/ some fine sand, little gravel, slightly moist.
15			
20			
25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-31

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

Date:

5/16/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	10:30A	6.1	Loose Light Brown Fine Sand and Medium Sand w/ little coarse sand, trace gravel, minor FeO ₂ staining, dry.
SS-2 9-11'	10	10:45A	8.1	Loose Light Brown Medium Sand w/ some coarse and fine sand, trace gravel, dry.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-32

Client:

NMB USA, Inc.

Logged By:

Chris Poole (2218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/17/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 (4-6')	5	7:40A	16.4	Loose Yellowish Orange Fine Sand/some medium sand, trace coarse sand, gravel and silt, moist.
SS-2 (9-11')	10	7:50A	6.2	Loose Yellowish Orange Fine Sand and Medium Sand w/ little coarse sand, trace gravel, moist.
SS-3 (14-16')	15	8:15A	2.4	Loose Yellowish Orange Fine and Medium Sand w/ trace coarse sand and gravel, slightly moist.
SS-4 (19-21')	20	8:25A	7.5	Medium Dense Tan Fine and Med. Sand w/ little coarse sand, trace gravel, slightly moist.
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 21 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-33

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/17/96 + 5/21/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
(4-6')

8:35A
(5/17)

9.7

4.5-5' Dense Brown Fine Silty Sand
w/ trace gravel, wet
5-6' - Loose Yellowish Orange Med.
sand w/ some fine and coarse
sand, trace gravel, moist.

SS-2
(9-11')

8:45A
(5/17)

9.3

Loose Brown Medium and Coarse
Sand w/ some fine sand, little
fine gravel, trace coarse gravel, moist.

SS-3
(14-16')

9:05A
(5/17)

4.7

Loose Light Brown Medium Sand
and Coarse Sand w/ some fine
sand and little gravel, moist.

SS-4
(19-21')

9:20A
(5/17)

1,238

Loose Tan Fine Sand w/ some
medium and coarse sand, little
gravel, moist.

SS-5
(24-26')

8:00
(5/21)

1510

Loose Yellowish Orange Med. Sand
and coarse sand w/ some fine

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 41 feet

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-34

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/17/96

Page:

1 of 1

Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------	-----------------	------------------	----------------	------------------------

SS-1 (4-6')	5	9:30A	9.2	4.25-5'-Very Dense Tan Very Fine Silty Sand w/ trace gravel, wet.
SS-2 (9-11')	10	9:40A	6.9	5-6'-Loose Yellowish orange Med. Sand w/ some fine and coarse sand, trace gravel, moist.
SS-3 (14-16')	15	9:50A	7.2	Loose light Brown Medium Sand coarse Sand w/ some fine sand and fine gravel, trace coarse gravel, minor Fe ₂ O ₃ staining, moist.
SS-4 (19-21')	20	10:05A	8.4	Loose Tan fine Sand and Medium Sand w/ little coarse sand, trace gravel, moist.
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 21 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-35

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (LZ18)

Project No.:

NMB004

Permit No.:

NA

Date:

5/17/96

Page:

1 of 1

Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------	-----------------	------------------	----------------	------------------------

SS-1 (4-6')	5	10:20A	4.6	Medium Dense Brown Medium Sand w/ some fine silty sand, trace coarse sand and gravel, wet.
SS-2 (9-11')	10	10:30A	6.7	Loose light brown medium sand and fine sand w/ some coarse sand, trace gravel, moist.
SS-3 (14-16')	15	10:40A	5.5	Loose yellowish orange fine sand + medium sand w/ little coarse sand, trace gravel, minor FeO ₂ staining, moist.
SS-4 (19-21')	20	10:50A	6.5	Loose tan fine sand w/ some medium sand, trace coarse sand and gravel, moist.
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-36

Client:

NMB USA, Inc.

Logged By:

Chris Paok (LZ18)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/17/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5	SS-1 (4-6')	11:10A	12.9	Loose Light Brown Fine Sand w/ some medium sand, little coarse sand, trace gravel, slightly moist.
10	SS-2 (9-11')	11:30A	10.5	Loose Yellowish Orange Medium Sand + Fine Sand w/ some coarse sand, little fine gravel, trace coarse gravel, minor FeO ₂ staining, slightly moist.
15				
20				
25				

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

Land Tech Remedial, Inc.

Boring Log No.: SB-37

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Pook (2218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/17/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5	SS-1 (4-6')	11:40A	12.5	Medium Dense Brown Medium sand w/ some fine silty sand, little coarse sand, trace gravel, moist.
10	SS-2 (9-11')	11:45A	10.7	Loose Light Brown Medium Sand and Fine Sand w/ some coarse sand, trace gravel, minor FeO ₂ staining, slightly moist.
15				
20				
25				

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-38

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/19/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	8:55A	1.2	Medium Dense Light Brown fine Sand and Medium Sand, trace gravel and fine silty sand, dry.
SS-2 9-11'	9:00A	7.6	Dense Gray Fine Silty Sand w/ some medium sand, trace gravel. Slightly moist

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Nelson
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head:
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-39

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/19/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	9:15A	5.7	Medium Dense Yellowish Orange Fine Sand w/some Medium Sand and fine Silty Sand, trace gravel, dry.
SS-2 9-11'	10	9:30A	4.0	Loose Yellowish Orange Fine Sand and Medium Sand w/trace coarse sand and gravel, dry.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Nelson</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water:
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-42

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

Date:

5/16/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	10:50A	4.2	Medium Dense Light Brown Fine and Medium Sand w/trace gravel and silt, slightly moist.
SS-2 9-11'	10	11:10A	3.6	Loose Light Brown Medium Sand w/some fine sand and coarse sand, little gravel, minor FeO ₂ staining, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Rows</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-43

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

Date:

5/16/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	11:20A	5.1	
55-2 9-11'	10	11:35A	4.7	
	15			
	20			
	25			

Loose Light Brown Medium Sand
w/some fine sand, little
coarse sand, trace gravel, s.
moist.

Loose Yellowish Orange Medium
Sand w/some fine sand, little
coarse sand, trace gravel,
minor FeO₂ staining, s. moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-44

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB 004

Project Location:

570 Main St.
Westbury, NY

Permit No.:

NA

Date:

5/16/96

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1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4.6'	11:45A	5.7	Loose Yellowish Orange Med. Sand w/ some fine silty sand, little coarse sand, trace gravel, s. moist.
55-2 9.1'	11:55A	7.3	Very Dense Yellowish Orange Silt, Trace Med. Sand and Gravel, s. moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-45

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main St,
Westbury, NY

Permit No.:

NA

Date:

5/1/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5	12:45 PM	5.3		Dense Light Brown Fine Silty Sand w/ trace med. sand and gravel, slightly moist
10	1:00 PM	3.2		Loose Light Brown Med. Sand w/ little fine silty sand, trace med. sand, coarse sand and gravel, minor FeO ₂ staining, dry
15				
20				
25				

Bore Hole Data:	
Drilling Company:	LTR
Driller:	Dale Rows
Drilling Method:	Geoprobe
Hole Diameter:	1 3/4 inches
Hole Depth:	11 feet
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-46

Client:

NMB USA, Inc.

Project Name:

TMG Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/16/96

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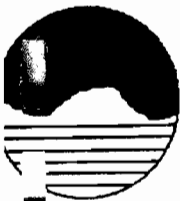
Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	1:15P	2.5	Dense Light Brown Fine Silty Sand w/ trace medium sand and gravel, slightly moist.
56-2 9-11'	1:30P	1.9	Loose Light Brown Med. Sand w/ some fine sand, little coarse sand, trace gravel, dry.
15			
20			
25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dalcroos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-47

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Pade (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/19/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
----------------------------	--------------	---------------	-------------	------------------------

5-1 4-6'	9:40A	2.1	Medium Dense Brown Fine Sand and Medium Sand w/some fine silty sand, trace coarse sand and gravel, dry.
5-2 9-11'	9:45A	1.7	Loose Yellowish Orange Medium Sand w/some fine sand, little coarse sand, trace gravel, dry.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Nelson
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-48

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/19/96

Page:

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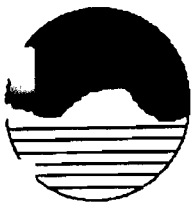
Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	10:10A	10.6	Medium Dense Light Brown Fine Sand w/some medium sand and fine silty sand, trace coarse sand and gravel, slightly moist.
SS-2 9-11'	10	10:30A	6.5	Loose Yellowish Orange Medium Sand and Fine Sand w/little coarse sand, trace gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Nelson
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: 5B-49

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/19/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5	SS-1 4-6'	10:55A	5.0	Loose Light Brown Medium Sand and Fine Sand w/some fine silty sand, trace gravel, slightly moist.
10	SS-2 9-11'	11:00A	4.8	Loose Light Brown Medium Sand and Fine Sand w/some coarse sand, trace gravel and cobbles, minor Fe ₂ O ₃ staining, dry.
15				
20				
25				

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Nelson
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-50

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/19/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5.2	11:15A	5.2	Loose Light Brown Medium Sand and Fine Sand, little coarse sand and fine silty sand, trace gravel, dry.
2.1	11:20A	2.1	Loose Yellowish Orange Med. Sand w/ some fine sand, little coarse sand, trace gravel, dry.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Nelson</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data:
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-52

Client:

NMBUSA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

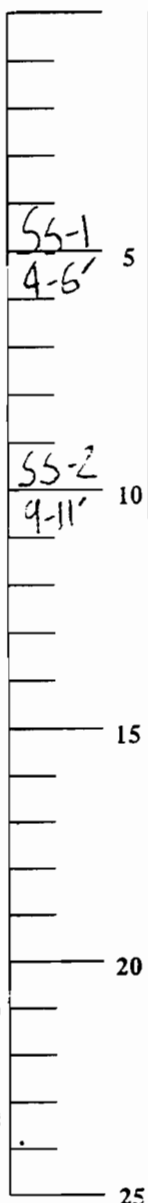
Date:

5/20/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



8:30

17.5

Dense Light Brown Fine Silty Sand
w/ little medium sand, trace gravel,
moist.

8:35

16.2

9-10.25' - Very Dense Gray Silt w/ trace
gravel, saturated.
10.25-11' - Loose Light Brown Medium
Sand w/ some fine sand, little
coarse sand, trace gravel,
moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-53

Client:

NMBUSA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/20/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



9:00

15.7

Medium Dense Yellowish Orange Fine Sand and Medium Sand w/ some fine silty sand and coarse sand, little gravel, slightly moist.

9:10

16.4

Medium Dense Yellowish Orange Fine Sand and Medium Sand w/ little coarse sand, trace gravel, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-54

Client:

NMBUSA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/20/96

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	10:00	16.1	Medium Dense Light Brown Fine Sand and Medium Sand w/ little coarse sand, trace gravel and fine silty sand, slightly moist.
SS-2 9-11'	10	10:15	13.6	Medium Dense Light Brown Fine Sand and Medium Sand w/ trace coarse sand and gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geo probe</u>
Hole Diameter: <u>134 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-55

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/20/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	10:30	21.7	4.25-5.25' - Dense Olive Gray Fine Silty sand w/ trace medium sand and gravel, wet.
55-2 9-11'	10	10:40	17.9	5.25-6' - Loose Yellowish Orange medium sand w/ little fine sand, trace c. sand and gravel, minor FeO ₂ staining, moist.
				Loose Light Brown Fine Sand and Medium Sand w/ some coarse sand, trace gravel, minor FeO ₂ staining, slightly moist

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Ross
Drilling Method: Geo probe
Hole Diameter: 134 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-56

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/20/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6'

5

11:30

14.9

Loose Light Brown Medium Sand
and fine sand w/some coarse
sand, trace gravel, FeO₂ staining,
slightly moist.

SS-2
9-11'

10

11:40

15.7

Loose Yellowish Orange Medium
Sand w/some fine sand and
coarse sand, trace gravel, minor
FeO₂ staining, slightly moist.

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Ross
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-57

Client:

NMBUSA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/20/96 & 6/10/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6'

5

11:55
(5/20)

12.2

Dense Tan fine silty sand w/ little
medium sand, trace gravel,
slightly moist.

SS-2
9-11'

10

12:00
(5/20)

9.2

Medium Dense Yellowish Orange
fine sand and medium sand w/
little coarse sand, trace gravel,
minor FeO₂ staining, slightly
moist.

SS-3
14-16'

15

16:00
(6/10)

6.6

Loose Yellowish Orange Med. Sand
and coarse sand w/ some fine
sand, little gravel, trace coarse
slightly moist.

SS-4
19-21'

20

16:20
(6/10)

6.8

Medium Dense Yellowish Orange
fine sand and med. sand w/
little coarse sand, trace gravel,
minor FeO₂ staining, slightly moist.

Bore Hole Data:	
Drilling Company:	LTR
Driller:	Dale Roos
Drilling Method:	6" open probe
Hole Diameter:	134 inches
Hole Depth:	21 feet
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-58

Client:

NMBUSA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

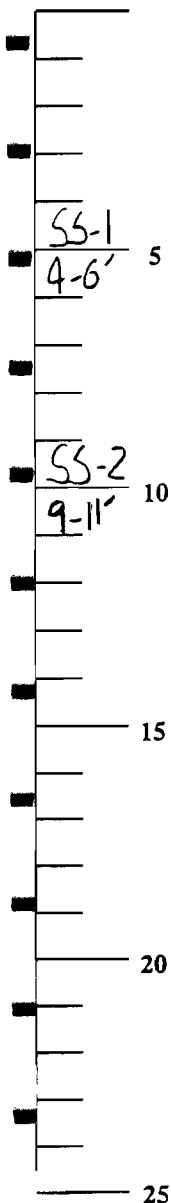
Date:

5/20/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



12:15

8.2

Dense Light Brown Fine Silty Sand
w/ little medium sand, trace
coarse sand and gravel, slightly
moist.

12:25

8.0

Loose Yellowish Orange Medium
Sand w/ some fine and coarse sand,
little gravel, dry.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-59

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/20/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' s	13:30	9.8
SS-2 9-11' 10	13:40	14.1
15		
20		
25		

Dense Light Brown fine silty sand w/ little medium sand, trace coarse sand and gravel, slightly moist.
Loose yellowish orange medium sand and fine sand w/ little coarse sand trace gravel, minor FeO ₂ staining, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-60

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/21/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1
4-6' 5
55-2
9-11' 10
15
20
25

9:55

11.1

Medium Dense Yellowish Orange
Med. sand and fine sand w/
some fine silty sand, little gravel
minor FeO₂ staining, s. moist.

10:05

15.7

Medium Dense Light Brown Red.
Sand w/some fine sand, little
coarse sand and gravel, FeO₂
staining, slightly moist.

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-61

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/21/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	9:10	15.5	
55-2 9-11'	10	9:20	13.7	
	15			
	20			
	25			

Medium Dense Light Brown
Med. sand and fine sand w/
trace coarse sand, gravel, fine
silty sand, dry.

Loose Light Brown Medium Sand
and Coarse Sand w/ little gravel
and fine gravel, trace cobbles, dry.

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Boos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

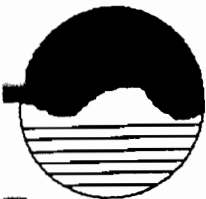
Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-62

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/21/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	9:40	12.6
SS-2 9-11'	10	9:50	25.1
	15		
	20		
	25		

Medium Dense Medium Sand and
Coarse Sand w/ some fines, dry
sand, trace gravel, slightly moist

Medium Dense Light Brown Fine Sand
and Medium Sand w/ some coarse
sand, trace fine gravel, wet.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-63

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/21/96 & 6/11/96

Page:

1 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 (4-6') ⁵	10:15 (5/21)	19.2
SS-2 (9-11) ¹⁰	10:20 (5/21)	23.5
SS-3 (14-16) ¹⁵	8:05 (6/11)	22.6
SS-4 (19-21) ²⁰	8:20 (6/11)	11.0
SS-5 (24-26) ²⁵	8:45 (6/11)	13.5

Medium Dense Brown Medium
Sand w/ some fine silty sand, trace
coarse sand and gravel, slightly
moist.

Medium Dense Gray Medium Sand
and fine sand w/ some coarse
sand, trace gravel, moist.

Loose Tan Med. Sand and Coarse
Sand w/ some fine sand, trace gravel,
minor FeO₂ staining, slightly moist.

Loose Light Brown Med. Sand and
Coarse Sand w/ some fine sand,
little gravel, FeO₂ staining, slightly
moist.

Med. Dense Light Brown Med. Sand

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 31 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

REMARKS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-63

Client: _____

Project Name: _____

Project Location: _____

Logged By: _____

Project No.: _____

Permit No.: _____

Date: _____

Page: _____

2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-5

(24-26')

SS-6

(29-31')

30

9:35

(6/11)

15.1

and Coarse Sand w/ some fine
sand, trace gravel, FeO₂ staining,
slightly moist.

Med. Dense Yellowish Orange Med.
Sand w/ some coarse sand and
fine sand, trace gravel, minor
FeO₂ staining, slightly moist.

Bore Hole Data:

Drilling Company: _____

Driller: _____

Drilling Method: _____

Hole Diameter: _____

Hole Depth: _____

Well Data

Well Casing

Casing Type: _____

Casing Diameter: _____

Casing Length: _____

Casing Interval: _____

Screen

Screen Type: _____

Screen Diameter: _____

Screen Slot: _____

Screen Length: _____

Screen Interval: _____

Filter Media

Media Type: _____

Composition: _____

Volume Used: _____

Filter Pack Interval: _____

Grout Seal

Bentonite Interval: _____

Cement Interval: _____

Well Head

Concrete Pad: _____

Size: _____

Road Box: _____

Size: _____

Depth To Water

Date: _____

Time: _____

DTW: _____

Well Development

Method: _____

Volume Purged: _____

Rate: _____

Date: _____

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-64

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (L218)
Project No.: NMB004
Permit No.: NA
Date: 5/21/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 (4-6')	5	11:00	7.7	Loose Light Brown Medium Sand w/ some fine sand and coarse sand, trace gravel and fine silty sand, slightly moist.
SS-2 (9-11')	10	11:10	8.7	Loose Light Brown Medium Sand some fine sand and coarse sand, trace gravel, FeO ₂ staining, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-65

Client:

NMB USA, Inc.

Project Name:

EMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/22/96 & 5/23/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1
4-6' 5
55-2
9-11' 10
55-3
14-16' 15
55-4
19-21' 20
25

14:50
(5/22)

20.3

15:00
(5/22)

15.6

13:45
(5/23)

2.3

13:55
(5/23)

5.1

Very Dense Tan Fine Silty Sand
w/ trace med. sand and gravel,
wet.

Medium Dense Tan Fine Sand
Med. Sand w/ little c. sand and
gravel, slightly moist.

Loose Yellowish Orange Fine Sand
and Med. Sand w/ some c. sand,
trace gravel, minor FeO₂ staining,
slightly moist.

Med. Dense Yellowish Orange Fine
and Med. Sand w/ some c. sand,
trace gravel, minor FeO₂ staining,
slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-67

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (2218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/22/96 & 6/11/96

Page:

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Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6' 5
SS-2
9-11' 10
SS-3
14-16' 15
SS-4
19-21' 20
25

8:35
(5/22)

6.5

Medium Dense Brown Medium
Sand w/ some fine sand, little
coarse sand, trace gravel, slightly
moist.

8:45
(5/22)

9.5

Medium Dense Yellowish Orange
Medium Sand and fine sand w/
some coarse sand, trace gravel,
slightly moist.

10:55
(6/11)

9.9

Loose Yellowish Orange Med. Sand
and coarse sand w/ some fine sand
little gravel, trace cobbles, slightly
moist.

11:15
(6/11)

21.2

Med. Dense Tan Med. Sand and fine
Sand w/ little coarse sand, trace
gravel, slightly moist.

Bore Hole Data:

Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 21 feet

Well Data

Well Casing

Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:

Screen

Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:

Filter Media

Media Type:
Composition:
Volume Used:
Filter Pack Interval:

Grout Seal

Bentonite Interval:
Cement Interval:

Well Head

Concrete Pad:
Size:
Road Box:
Size:

Depth To Water

Date:
Time:
DTW:

Well Development

Method:
Volume Purged:
Rate:
Date:

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-68

Client:

NMB USA, Inc.

Logged By:

Chris Poole (218)

Project Name:

EMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/22/96 & 6/11/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	8:56 (5/22)	15.0
SS-2 9-11'	10	9:03 (5/22)	6.3
SS-3 14-16'	15	10:00 (6/11)	34.5
SS-4 19-21'	20	10:15 (6/11)	23.1
	25		

Medium Dense Brown Medium Sand
and Fine Sand w/ little fine silty
sand, trace coarse sand and gravel,
slightly moist.

Loose Yellowish Orange Medium
Sand and Fine Sand w/ some c.
sand, trace gravel, slightly moist.

Loose Tan Med. Sand and c. sand
w/ some fine sand and gravel, trace
cobbles, slightly moist.

Med. Dense Tan Med. Sand and Fine
Sand w/ some coarse sand, trace
gravel and cobbles, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-69

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/22/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6'

5

q: 25

0.0

Dense Light Brown Fine Sand and
Medium Sand w/ some fine silty
sand, little coarse sand, trace
gravel, slightly moist.

SS-2
9-11'

10

q: 30

0.0

Dense Yellowish Orange Med. Sand
and Fine Sand, trace coarse sand
and gravel, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-70

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (2218)
Project No.: NMB004
Permit No.: NA
Date: 5/22/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4.6'	9:40	0.0	4-5'-Very Dense Gray Silt w/trace med. sand, wet. 5-5.5'-Loose Light Brown Fine and Med. Sand w/ little coarse sand, trace gravel, slightly moist.
SS-2 9.11'	9:55	0.0	Medium Dense Yellowish Orange Med Sand and Fine Sand w/ little coarse sand, trace gravel, slightly moist.
15			
20			
25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-71

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/22/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	10:05	6.2	Dense Light Brown Fine Silty Sand w/ some medium sand, trace gravel, moist.
SS-2 9-11'	10	10:17	5.8	Medium Dense Yellowish Orange Fine Sand and Medium Sand w/ little gravel, trace coarse sand, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water:
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-72

Client: NMB USA, Inc.
Project Name: IMC Magnetics
Project Location: 570 Main Street
Westbury, NY

Logged By: Chris Poole (2218)
Project No.: NMB004
Permit No.: NA
Date: 5/22/96
Page: 1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	14:30	10.9
SS-2 9-11'	10	14:35	13.0
	15		
	20		
	25		

Dense Tan Fine Silty Sand w/
little medium sand, trace c.
sand and gravel, moist.

Loose Yellow to Orange Med. Sand
and Fine Sand w/ little c. sand,
trace gravel, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1 3/4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: **SB-73**

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

**570 Main Street
Westbury, NY**

Logged By:

Chris Poole (L2B)

Project No.:

NMB004

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	7:50	18.0	Very Dense Yellowish Orange fine Silty Sand w/ little med. sand, trace c. sand and gravel, moist.
SS-2 9-11'	10	8:00	8.7	9-9.75' - Very Dense Gray Silt, Slightly moist 9.75-11' - Loose Yellowish Orange Med. and fine sand w/ some coarse sand, trace gravel, slightly moist.
	15			
	20			
	25			

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geoprobe
Hole Diameter: 1.34 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-74

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L2B)

Project No.:

NMB004

Permit No.:

NA

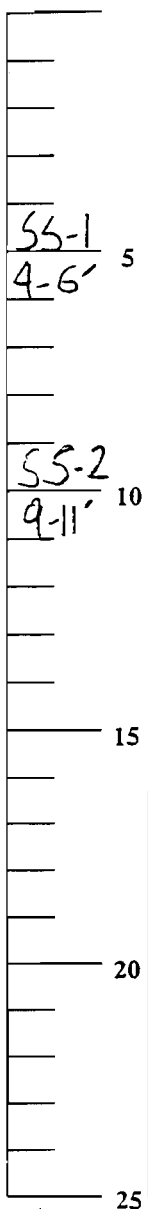
Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



Med. Dense Light Brown fine sand
Med. Sand w/ little coarse sand,
trace gravel, slightly moist.

Med. Dense Yellowish Orange Med.
and Fine Sand w/ some fine
silty sand, little c. sand, trace
gravel, slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geo probe
Hole Diameter: 3.4 inches
Hole Depth: 11 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING

WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-76

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L218)

Project No.:

NMB004

Permit No.:

N/A

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6' 5
SS-2
9-11' 10
15
20
25

8:35

5.4

8:45

11.1

Med. Dense Yellowish orange fine
and Medium Sand w/ little
c. sand, trace gravel, Fe₂O₃
staining, slightly moist.

Med. Dense Med. sand and fine
Sand w/ some c. sand, little gravel
s. moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Koog</u>
Drilling Method: <u>Geo probe</u>
Hole Diameter: <u>1.314 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING

COMMENTS:



Land Tech Remedial, Inc.

Boring Log No.: SB-77

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L2B)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5	SS-1 4-6'	8:55	8.4	Med. Dense Yellowish Orange Fine Sand and Med. Sand w/ some c. sand, little gravel, slightly moist.
10	SS-2 11-13'	9:15	5.1	Med. Dense Yellowish Orange Med. Sand and Fine Sand w/ some c. sand and fine silty sand, trace gravel, slightly moist.
15				
20				
25				

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Roos</u>
Drilling Method: <u>Geo Probe</u>
Hole Diameter: <u>1.34 inches</u>
Hole Depth: <u>11 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS: See Field Notes Dated
5/23/96 for explanation of why
SS-2 collected 11-13' B.G.

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-78

Client:

NMB USA, Inc.

Logged By:

Chris Poole (L218)

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	9:25	9.1	Loose Brown Med. Sand w/some fine and c. sand, little fine silty sand, trace gravel, slightly moist.
SS-2 9-11'	10	9:30	10.6	Loose Yellowish Orange Med. and Fine Sand w/some c. sand little gravel, trace cobbles slightly moist.
	15			
	20			
	25			

Bore Hole Data:	
Drilling Company:	<u>LTR</u>
Driller:	<u>Dale Roos</u>
Drilling Method:	<u>Geo probe</u>
Hole Diameter:	<u>1.54 inches</u>
Hole Depth:	<u>11 feet</u>
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water:	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-79

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (LTH)

Project No.:

NMB004

Permit No.:

NA

Date:

5/23/96 & 5/28/96

Page:

1 of 2 6/10/96

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

5
SS-1
9-11' 10
SS-2
14-16' 15
SS-3
19-21' 20
SS-4
24-26' 25

10:31
(5/23)

97.8

10:40
(5/23)

17.7

10:50
(5/23)

23.7

13:03
(5/28)

19.3

Dense Dark Brown Fine Silty Sand w/
little med. sand, trace gravel,
organic material, moist

Same as above.

Med. Dense Yellowish Orange Fine
Sand and Med. Sand w/some
c. sand, trace gravel, minor
FeO₂ staining, slightly moist.

Med. Dense Yellowish Orange Fine Sand

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geo probe
Hole Diameter: 1 3/4 inches
Hole Depth: 41 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-79

Client: _____

Project Name: _____

Project Location: _____

Logged By: _____

Project No.: _____

Permit No.: _____

Date: _____

Page: _____

2 of 2

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-4

24-26'

SS-5

29-31'

13:21

(5/28)

7.5

and Medium Sand w/ some coarse sand, trace gravel, minor FeO₂ staining, slightly moist.

Medium Dense Tan Fine Sand w/ some medium sand, trace coarse sand and gravel, slightly moist.

SS-6

34-36'

17:45

(6/10)

8.1

Dense Yellowish Orange Fine Sand and Med. Sand w/ trace coarse sand and gravel, moist.

SS-7

34-41'

19:00

(6/10)

0.0

Dense Yellowish Orange Fine Sand w/ some Med. sand, trace fine silty sand, moist.

Bore Hole Data:

Drilling Company: _____

Driller: _____

Drilling Method: _____

Hole Diameter: _____

Hole Depth: _____

Well Data

Well Casing

Casing Type: _____

Casing Diameter: _____

Casing Length: _____

Casing Interval: _____

Screen

Screen Type: _____

Screen Diameter: _____

Screen Slot: _____

Screen Length: _____

Screen Interval: _____

Filter Media

Media Type: _____

Composition: _____

Volume Used: _____

Filter Pack Interval: _____

Grout Seal

Bentonite Interval: _____

Cement Interval: _____

Well Head

Concrete Pad: _____

Size: _____

Road Box: _____

Size: _____

Depth To Water

Date: _____

Time: _____

DTW: _____

Well Development

Method: _____

Volume Purged: _____

Rate: _____

Date: _____

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-80

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L2A)

Project No.:

NMB004

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6' 5
SS-2
9-11' 10
SS-3
14-16' 15
SS-4
19-21' 20
25

11:10

9.2

4-5.5' Topsoil and asphalt fill
5.5-6' Med. Dense Light Brown
Med. sand and fine silty
sand w/ some fine sand,
trace c. sand and gravel,
moist.

11:15

13.3

Med. Dense Med. sand and fine sand
w/ some c. sand, trace gravel, minor
FeO₂ staining, slightly moist.

11:30

16.7

Med. Dense Yellowish orange Med.
sand and fine sand w/ some
c. sand, little gravel, slightly moist.

11:40

14.6

Loose Yellowish orange Med. sand
w/ some fine sand and c. sand,
trace gravel, FeO₂ staining, slightly
moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roofs
Drilling Method: Geo probe
Hole Diameter: 1 3/4 inches
Hole Depth: 21 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-81

Client:

Project Name:

Project Location:

NMB USA, Inc.
IMC Magnetics
570 Main Street
Westbury, NY

Logged By:

Project No.:

Permit No.:

Date:

Page:

Chris Poole (L218)
NMB004
NA
5/23/96
1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6' 5	11:50	7.7
SS-2 4-11' 10	11:55	12.7
SS-3 14-16' 15	12:00	12.6
SS-4 19-21' 20	12:11	12.5

Dense Tan Silt w/ some fine sand and
Med. sand, little c. sand, trace gravel,
minor FeO₂ staining, moist.

Med. Dense Tan Med. Sand and fine
Sand w/ some c. sand, trace
gravel, slightly moist.

Loose Yellowish Orange Med. Sand
w/ some fine and c. sand, trace
gravel, slightly moist.

Loose Yellowish Orange Fine Sand
and Med. Sand w/ some c. sand,
trace gravel, minor FeO₂ staining,
slightly moist.

Bore Hole Data:
Drilling Company: LTR
Driller: Dale Roos
Drilling Method: Geo Probe
Hole Diameter: 1 3/4 inches
Hole Depth: 21 feet
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-82

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (L2B)

Project No.:

NMB004

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

55-1 4-6'	5	13:05	8.7
55-2 9-11'	10	13:10	9.5
55-3 14-16'	15	13:20	13.0
55-4 19-21'	20	13:30	15.5
25			

Loose Yellowish Orange Med Sand and C. Sand w/ some fine sand, little fine silty sand, trace gravel, slightly moist.
Loose Yellowish Orange Med. Sand w/ some fine and c. sand, trace gravel, minor FeO ₂ staining, slightly moist.
Loose Yellowish Orange Fine and Med. Sand w/ some c. sand, trace gravel, minor FeO ₂ staining, slightly moist.
Loose Mellowish Orange Fine Sand and Med. Sand w/ some c. sand, little gravel, minor FeO ₂ staining, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Rooss</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-83

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Pore

Project No.:

NMB004

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	14:05	5.7
SS-2 9-11'	10	14:10	6.1
SS-3 14-16'	15	14:20	9.4
SS-4 20	20	14:30	6.9

Med. Dense Yellowish Orange Fine Sand w/ some med. sand, little c. sand, trace gravel, FeO ₂ staining, slightly moist.
Med. Dense Yellowish Orange Fine Sand and Med. Sand w/ some c. sand, trace gravel, slightly moist.
Med. Dense Yellowish Orange Fine Sand and Med. Sand w/ little c. sand, trace gravel, heavy FeO ₂ staining, slightly moist.
Med. Dense Yellowish Orange Fine Sand and Med. Sand w/ some c. sand, trace gravel, FeO ₂ staining, slightly moist.

Bore Hole Data:	
Drilling Company:	LTH
Driller:	Dale Ruess
Drilling Method:	Geopier
Hole Diameter:	1 1/4"
Hole Depth:	21 feet
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:



GRAVEL PACK



GROUT



WELL SCREEN



BENTONITE



CEMENT



WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-84

Client:

NMB USA, Inc.

Logged By:

Chris Poon

Project Name:

IMC Magnetics

Project No.:

NMB004

Project Location:

570 Main Street
Westbury, NY

Permit No.:

NA

Date:

5/23/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6'

5

14:40

7.4

4.75-5.25' - Dense Tan Silt, wet.

5.25-6' - Med. Dense Yellowish Orange
Fine sand and Med sand
w/ trace c. sand and gravel,
moist

SS-2
9-11'

10

14:50

11.9

Med. Dense Yellowish Orange Fine
Sand and Med. Sand w/ little c.
sand, trace gravel, minor FeO₂
staining, slightly moist.

SS-3
14-16'

15

15:00

9.9

Loose Yellowish Orange Med. Sand
and Fine Sand w/ some c. sand,
little gravel, minor FeO₂ staining,
slightly moist.

SS-4
19-21'

20

15:05

11.2

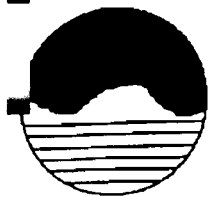
Loose Yellowish Orange Med. Sand
and Fine Sand w/ some c. sand,
little gravel, FeO₂ staining,
slightly moist.

25

Bore Hole Data:	
Drilling Company:	<u>LTH</u>
Driller:	<u>Dale Roos</u>
Drilling Method:	<u>Geopac</u>
Hole Diameter:	<u>1.31 in.</u>
Hole Depth:	<u>21 feet</u>
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-85

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/28/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1 4-6'	5	9:34	21.0
SS-2 9-11'	10	9:41	12.5
SS-3 14-16'	15	10:00	11.0
SS-4 19-21'	20	10:13	8.0
	25		

Med. Dense Yellowish Orange Fine sand and Med. Sand w/ little c. sand, trace gravel, slightly moist.

Loose Yellowish Orange Med. Sand w/ some c. sand, fine sand and fine silty sand, trace gravel, slightly moist.

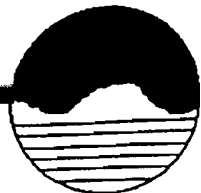
Loose Yellowish Orange Med. Sand and C. Sand w/ some fine sand, trace gravel, minor FeO₂ staining, slightly moist.

Medium Dense Yellowish Orange Med. Sand and Fine Sand w/ some c. sand, trace gravel, minor FeO₂ staining, slightly moist.

Bore Hole Data:	
Drilling Company:	<u>LTR</u>
Driller:	<u>Dale Nelson</u>
Drilling Method:	<u>Geoprobe</u>
Hole Diameter:	<u>1 3/4 inches</u>
Hole Depth:	<u>21 feet</u>
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-86

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (2218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/28/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

<u>SS-1</u> <u>4-6'</u>	<u>5</u>	<u>10:41</u>	<u>8.0</u>
<u>SS-2</u> <u>9-11'</u>	<u>10</u>	<u>10:47</u>	<u>7.6</u>
<u>SS-3</u> <u>14-16'</u>	<u>15</u>	<u>11:00</u>	<u>7.9</u>
<u>SS-4</u> <u>19-21'</u>	<u>20</u>	<u>11:14</u>	<u>7.2</u>
	<u>25</u>		

4.5-5.5' - Dense Tan Fine Silty Sand w/
trace gravel, saturated.
5.5-6' - Med. Dense Light Brown Fine
sand w/ trace med. sand
and gravel, minor FeO₂ staining,
slightly moist.

Loose Yellowish Orange Med. Sand and
Fine Sand w/ some C. sand, little
gravel, minor FeO₂ staining, slightly
moist.

Loose Tan Med. Sand and C. Sand
w/ some fine sand, little gravel,
minor FeO₂ staining, moist.

Med. Dense Yellowish Orange Fine
Sand and Med. sand w/ trace
C. sand and gravel, minor FeO₂
staining, slightly moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Nelson</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-87

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

Date:

5/28/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------

SS-1
4-6' 5
SS-2
9-11' 10
SS-3
14-16' 15
SS-4
19-21' 20
25

11:29

7.4

11:35

7.6

11:54

6.3

12:01

8.7

Med. Dense Yellowish Orange Fine
Sand and Med. Sand w/ some c.
sand, trace gravel, FeO₂ staining,
slightly moist.

Med. Dense Tan Med. Sand and Fine
Sand w/ some coarse sand, trace
gravel, slightly moist.

Loose Tan Med. Sand w/ some c. sand
little fine sand, trace gravel, slightly
moist.

Med. Dense Yellowish Orange Med.
Sand and Fine Sand w/ little c. sand
trace gravel, FeO₂ staining, slightly
moist.

Bore Hole Data:
Drilling Company: <u>LTR</u>
Driller: <u>Dale Nelson</u>
Drilling Method: <u>Geoprobe</u>
Hole Diameter: <u>1 3/4 inches</u>
Hole Depth: <u>21 feet</u>
Well Data
Well Casing
Casing Type:
Casing Diameter:
Casing Length:
Casing Interval:
Screen
Screen Type:
Screen Diameter:
Screen Slot:
Screen Length:
Screen Interval:
Filter Media
Media Type:
Composition:
Volume Used:
Filter Pack Interval:
Grout Seal
Bentonite Interval:
Cement Interval:
Well Head
Concrete Pad:
Size:
Road Box:
Size:
Depth To Water
Date:
Time:
DTW:
Well Development
Method:
Volume Purged:
Rate:
Date:

COMMENTS:

GRAVEL PACK	GROUT	WELL SCREEN
BENTONITE	CEMENT	WELL CASING



Land Tech Remedial, Inc.

Boring Log No.: SB-88

Client:

NMB USA, Inc.

Project Name:

IMC Magnetics

Project Location:

570 Main Street
Westbury, NY

Logged By:

Chris Poole (218)

Project No.:

NMB004

Permit No.:

NA

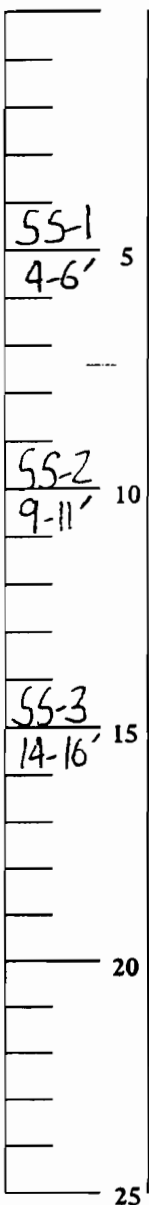
Date:

5/28/96

Page:

1 of 1

Depth Below Surface (Feet)	Well Diagram	PID/FID (PPM)	Blow Counts	Field Soil Description
-------------------------------	-----------------	------------------	----------------	------------------------



5-1
4-6' 5 13:40 9.5

9-11' 10 13:55 8.7

14-16' 15 14:07 NA

Loose Yellowish Orange Med. Sand
and fine sand w/ some c. sand,
trace gravel, minor FeO₂ staining,
slightly moist.

Med. Dense Yellowish Orange Med. Sand
and fine sand w/ some c. sand,
trace gravel and cobbles, minor
FeO₂ staining, slightly moist.

Sample taken for geotechnical
analyses purposes and not logged
or split. See notes for 5/28/96.

Bore Hole Data:	
Drilling Company: <u>LTR</u>	
Driller: <u>Dale Nelson</u>	
Drilling Method: <u>Geoprobe</u>	
Hole Diameter: <u>1 3/4 inches</u>	
Hole Depth: <u>11 feet</u>	
Well Data	
Well Casing	
Casing Type:	
Casing Diameter:	
Casing Length:	
Casing Interval:	
Screen	
Screen Type:	
Screen Diameter:	
Screen Slot:	
Screen Length:	
Screen Interval:	
Filter Media	
Media Type:	
Composition:	
Volume Used:	
Filter Pack Interval:	
Grout Seal	
Bentonite Interval:	
Cement Interval:	
Well Head	
Concrete Pad:	
Size:	
Road Box:	
Size:	
Depth To Water	
Date:	
Time:	
DTW:	
Well Development	
Method:	
Volume Purged:	
Rate:	
Date:	

COMMENTS:

	GRAVEL PACK		GROUT		WELL SCREEN
	BENTONITE		CEMENT		WELL CASING

APPENDIX B

Mobile Laboratory Analytical Results



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605000-10
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/7/96

Sample Number	SB-1	SB-1	SB-1			
Depth	SS-1	SS-2	SS-3			
Collection Date	5/7/96	5/7/96	5/7/96			
LTR No.	Y605008	Y605009	Y605010			
Dilution Factor	4.9	6.3	4.9			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	24	27	21		
Ethylbenzene	5	ND	ND	ND		
P & M-Xylenes	5	ND	ND	ND		
O-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	ND	ND	ND		
Tetrachloroethene	5	ND	ND	ND		
Bromochloromethane	80-120%	104	120	120		
1,1,1 Trifluorotoluene	80-120%	110	100	95		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:

A compound that elutes at the retention time of toluene was detected in the air/building blank. The presence of only toluene in samples SB-1 SS-1, SS-2, SS-3 is consistent with the building air as the most likely source of toluene rather than the soil.



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605011-33
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/8/96

Sample Number	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3
Depth	SS-1	SS-2	SS-3	SS-4	SS-1	SS-2
Collection Date	5/8/96	5/8/96	5/8/96	5/8/96	5/8/96	5/8/96
LTR No.	Y605017	Y605018	Y605024	Y605026	Y605019	Y605020
Dilution Factor	6.6	5.9	6.9	6.1	7.5	6.8

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	282	6	6	ND	171	ND
Bromochloromethane	80-120%	120	118	99	105	103	92
a,a,a Trifluorotoluene	80-120%	93	85	89	80	83	84

MDL = Method Detection Limit

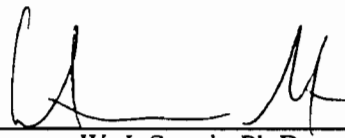
ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:


W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605011-33
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/8/96

Sample Number	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5	SB-5 D
Depth	SS-3	SS-1	SS-2	SS-3	SS-1	SS-2	SS-1
Collection Date	5/8/96	5/8/96	5/8/96	5/8/96	5/8/96	5/8/96	5/8/96
LTR No.	Y605031	Y605022	Y605023	Y605029	Y605027	Y605028	Y605033
Dilution Factor	6.1	8.2	7.0	5.6	5.5	5.4	5.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	44	155	ND	ND	92	143
Monochloromethane	80-120%	88	100	86	120	117	113
1,1,1-Trifluorotoluene	80-120%	80	81	80	80	80	80

MDL = Method Detection Limit

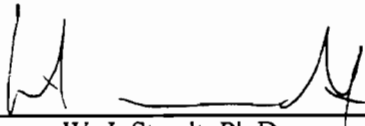
n = parts per million

b = parts per billion

Compound Detected Below MDL

0 = None Detected

Analyst:


W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605034-58
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/9/96

Sample Number	SB-2	SB-2	SB-3	SB-3	SB-6	SB-6
Depth	SS-5	SS-5 D	SS-4	SS-5	SS-1	SS-2
Collection Date	5/9/96	5/9/96	5/9/96	5/9/96	5/9/96	5/9/96
LTR No.	Y605038	Y605041	Y605039	Y605040	Y605043	Y605044
Dilution Factor	5.1	5.8	5.9	6.0	6.2	6.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	12	ND	ND	ND	ND	ND
Ethylbenzene	5	8	ND	ND	ND	ND	ND
P& M-Xylenes	5	17	ND	ND	ND	ND	ND
O-Xylenes	5	12	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	6	ND	ND	ND	346	110
Bromochloromethane	80-120%	120	115	119	115	94	120
a,a,a Trifluorotoluene	80-120%	80	81	80	80	85	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Revised 5/14/96

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605034-58
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/9/96

Sample Number	SB-6	SB-6	SB-7	SB-7	SB-8	SB-8
Depth	SS-3	SS-4	SS-1	SS-2	SS-1	SS-2
Collection Date	5/9/96	5/9/96	5/9/96	5/9/96	5/9/96	5/9/96
LTR No.	Y605048	Y605052	Y605045	Y605046	Y605047	Y605048
Dilution Factor	5.9	5.2	6.3	6.3	5.6	6.1

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	7	ND	78	7	ND	ND
Bromochloromethane	80-120%	120	120	116	120	120	120
a,a,a Trifluorotoluene	80-120%	85	85	80	82	85	83

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

1 = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
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ANALYTICAL REPORT

Revised 5/14/96

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605034-58
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/9/96

Sample Number	SB-9	SB-9				
Depth	SS-1	SS-1 D				
Collection Date	5/9/96	5/9/96				
LTR No.	Y605053	Y605058				
Dilution Factor	5.8	6.1				

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND			
Toluene	5	ND	ND			
Ethylbenzene	5	ND	ND			
P & M-Xylenes	5	ND	ND			
O-Xylenes	5	ND	ND			
1,1 Dichloroethene	5	ND	ND			
trans 1,2 Dichloroethene	5	ND	ND			
cis 1,2 Dichloroethene	5	ND	ND			
1,1 Dichloroethane	5	ND	ND			
1,1,1 Trichloroethane	5	ND	ND			
Trichloroethene	5	ND	ND			
Tetrachloroethene	5	20	23			
Bromochloromethane	80-120%	120	119			
a,a,a Trifluorotoluene	80-120%	80	91			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605059-81
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/10/96

Sample Number	SB-9	SB-10	SB-10	SB-11	SB-11	SB-12
Depth	SS-2	SS-1	SS-2	SS-1	SS-2	SS-1
Collection Date	5/9/96	5/9/96	5/9/96	5/10/96	5/10/96	5/10/96
LTR No.	Y605064	T605056	Y605057	Y605063	Y605054	Y605065
Dilution Factor	6.1	6.9	6.9	8.2	5.7	5.2

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	44	ND	673	287	57
Bromochloromethane	80-120%	120	102	92	88	96	100
a,a,a Trifluorotoluene	80-120%	80	84	92	94	90	95

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605059-81
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/10/96

Sample Number	SB-12	SB-11	SB-13	SB-13	SB-14	SB-14
Depth	SS-2	SS-1 D	SS-1	SS-2	SS-1	SS-2
Collection Date	5/10/96	5/10/96	5/10/96	5/10/96	5/10/96	5/10/96
LTR No.	Y605066	Y605067	Y605069	Y605071	Y605072	Y605073
Dilution Factor	5.9	6.4	5.9	8.4	6.8	6.0

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	6
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	27	412	9	37	628	14
Bromochloromethane	80-120%	96	100	120	95	114	109
a,a,a Trifluorotoluene	80-120%	94	92	88	85	87	87

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y606001-12
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 6/10/96

Sample Number	SB-11	SB-11	SB-11	SB-14	SB-14	SB-23
Depth	SS-3	SS-4	SS-3 D	SS-3	SS-4	SS-5
Collection Date	6/10/96	6/10/96	6/10/96	6/10/96	6/10/96	6/10/96
LTR No.	Y606005	Y606006	Y606007	Y606008	Y606009	Y606010
Dilution Factor	8.2	6.8	6.0	8.9	7.4	7.5

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	69	11	29	7	I (3.6)	ND
Bromochloromethane	80-120%	98	87	82	89	80	89
a,a,a Trifluorotoluene	80-120%	101	113	114	120	116	107

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605059-81
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/10/96

Sample Number	SB-15	SB-15	SB-16	SB-16	SB-17	SB-17
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/10/96	5/10/96	5/10/96	5/10/96	5/10/96	5/10/96
LTR No.	Y605075	Y605076	Y605077	Y605078	Y605080	Y605081
Dilution Factor	6.7	5.5	5.7	6.2	51.0	5.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	7	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	9	ND	ND	ND	102	ND
Bromochloromethane	80-120%	100	108	120	112	107	120
a,a,a Trifluorotoluene	80-120%	88	86	85	85	84	82

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605082-102
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/13/96

Sample Number	SB-18	SB-18	SB-19	SB-19	SB-20	SB-20
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/13/96	5/13/96	5/13/96	5/13/96	5/13/96	5/13/96
LTR No.	Y605086	Y605087	Y605088	Y605089	Y605090	Y605091
Dilution Factor	6.9	6.0	8.2	5.6	5.6	6.1

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	I (4)	ND	ND
Toluene	5	ND	11	ND	12	13	9
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
p & m-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	28	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	5	I (3)	5	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	11	ND	9	ND
Bromochloromethane	80-120%	115	111	104	99	107	102
1,1,1 Trifluorotoluene	80-120%	95	93	90	93	91	92

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:


W. J. Staudt, Ph.D.

Comments:

Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605082-102
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/13/96

<i>Sample Number</i>	SB-21	SB-21	SB-21	SB-22	SB-22	SB-23	SB-23
<i>Depth</i>	SS-1	SS-1 D	SS-2	SS-1*	SS-2	SS-1	SS-2*
<i>Collection Date</i>	5/13/96	5/13/96	5/13/96	5/13/96	5/13/96	5/13/96	5/13/96
<i>LTR No.</i>	Y605093	Y605095	Y605094	Y605097	Y605098	Y605100	Y605101
<i>Dilution Factor</i>	6.7	7.8	6.1	10.7	6.2	7.2	7.8

Parameter	MDL, ppb	Concentration, ppb						
Benzene	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	6	ND	ND	ND	ND	ND
Methylbenzene	5	ND	ND	ND	ND	ND	ND	ND
p-Xylenes	5	ND	ND	ND	ND	ND	ND	ND
m-Xylenes	5	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	I (4)	7	17	15	ND	ND	ND
Trichloroethene	5	ND	ND	ND	42	ND	ND	27
Trichloroethene	5	ND	ND	ND	2357	ND	79	1394
Chloromethane	80-120%	86	104	120	82	108	113	106
1,1,1-Trifluorotoluene	80-120%	86	89	85	80	86	82	80

DL = Method Detection Limit
 m = parts per million
 b = parts per billion
 Compound Detected Below MDL
) = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments: The PCE concentration determined by water extraction was above the recommended upper limit of 1000 ppb. An aliquot of the collected soil sample was extracted and preserved in methanol, and will be rerun on 5/14/96.



Land Tech Remedial, Inc.

Analytical Services

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Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605103-136
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/14/96

Sample Number	SB-22	SB-24	SB-24	SB-25	SB-25	SB-25
Depth	SS-1	SS-1	SS-2	SS-1	SS-2	SS-3
Collection Date	5/13/96	5/13/96	5/13/96	5/14/96	5/14/96	5/14/96
LTR No.	Y605107	Y605108	Y605109	Y605110	Y605111	Y605112
Dilution Factor	64.4 M	6.5	5.7	97 M	98 M	117 M

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1 Trichloroethane	5	ND	ND	ND	ND	ND	500
Trichloroethene	5	117	ND	ND	ND	ND	1000
tetrachloroethene	5	9431	14	6	134400	294700	1668000
Bromochloromethane	80-120%	80	90	98	111	102	112
a,a,a Trifluorotoluene	80-120%	95	93	85	92	87	85

MDL = Method Detection Limit

ppm = parts per million

pb = parts per billion

☐ = Compound Detected Below MDL

ND = None Detected

[M] = Methanol Extraction Method

Comments:

Analyst:

W. J. Staudt, Ph.D.



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605103-136
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/14/96

Sample Number	SB-25	SB-25	SB-25	SB-25	SB-25	SB-25
Depth	SS-4	SS-4 D	SS-5	SS-6	SS-7	SS-8
Collection Date	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
LTR No.	Y605114	Y605134	Y605115	Y605116	Y605119	Y605120
Dilution Factor	298 M	1086 M	171 M	155 M	82 M	119 M

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	756300	1851000	231600	1000	26600	600
Ethylbenzene	5	52200	155000	17500	ND	633600	ND
P & M-Xylenes	5	295900	903000	93900	ND	10500	200
O-Xylenes	5	86800	192000	23700	ND	3400	ND
1,1 Dichloroethene	5	2177500	2773000	587600	1300	25900	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	258200	287000	32800	ND	2600	ND
Trichloroethene	5	127300	177000	23000	ND	2000	ND
Tetrachloroethene	5	13589200	39396000	6719000	258700	1314100	499800
Bromochloromethane	80-120%	100	93	86	87	107	80
a,a,a Trifluorotoluene	80-120%	80	89	113	118	80	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

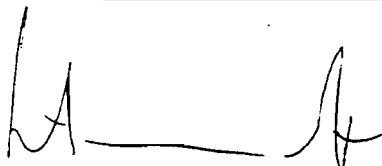
I = Compound Detected Below MDL

ND = None Detected

M=Methanol Extraction Method

Comments:

Analyst:


W. J. Staudt, Ph.D.



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605103-136
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/14/96

Sample Number	SB-25	SB-25	SB-25	SB-25	SB-25	SB-25
Depth	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14
Collection Date	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
LTR No.	Y605121	Y605122	Y605123	Y605124	Y605125	Y605126
Dilution Factor	120 M	89 M	83 M	86 M	73 M	76 M

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	3000	ND
Toluene	5	26400	1200	ND	ND	4800	ND
Ethylbenzene	5	2500	ND	ND	ND	400	ND
P & M-Xylenes	5	12800	ND	ND	ND	3100	ND
O-Xylenes	5	3400	ND	ND	ND	900	ND
1,1 Dichloroethene	5	32300	2600	600	500	ND	300
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	2700	ND	ND	ND	400	ND
Trichloroethene	5	1400	ND	ND	ND	ND	ND
Tetrachloroethene	5	1467300	169200	1100	1400	438000	700
Bromochloromethane	80-120%	110	89	95	95	91	82
1,1,1 Trifluorotoluene	80-120%	80	80	80	84	80	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M=Methanol Extraction Method

Comments:

Analyst:


W. J. Staudt, Ph.D.



Land Tech Remedial, Inc.

Analytical Services

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Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605103-136
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/14/96

Sample Number	SB-25	SB-25				
Depth	SS-15	SS-21				
Collection Date	5/14/96	5/14/96				
LTR No.	Y605127	Y605136				
Dilution Factor	91 M	83 M				

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND			
Toluene	5	ND	200			
Ethylbenzene	5	ND	ND			
P & M-Xylenes	5	ND	ND			
O-Xylenes	5	ND	ND			
1,1 Dichloroethene	5	ND	700			
trans 1,2 Dichloroethene	5	ND	ND			
cis 1,2 Dichloroethene	5	ND	ND			
1,1 Dichloroethane	5	ND	ND			
1,1,1 Trichloroethane	5	ND	ND			
Trichloroethene	5	ND	ND			
Tetrachloroethene	5	500	6500			
Bromochloromethane	80-120%	80	107			
1,1,1 Trifluorotoluene	80-120%	80	96			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M=Methanol Extraction Method

Comments:

Analyst:

W. J. Staudt, Ph.D.



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605129-151
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/15/96

Sample Number	SB-25	SB-25	SB-25	SB-25	SB-25	SB-30
Depth	SS-16	SS-17	SS-18	SS-19	SS-20	SS-1
Collection Date	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96	5/16/96
LTR No.	Y605129	Y605130	Y605131	Y605132	Y605133	Y605172
Dilution Factor	97 M	106 M	88 M	92 M	100 M	5.8

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	3549	819	378	474	ND	ND
Bromochloromethane	80-120%	102	106	118	118	107	106
a,a,a Trifluorotoluene	80-120%	94	95	92	92	91	82

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

— = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605129-151
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/15/96

Sample Number	SB-25	SB-25	SB-25	SB-25	SB-25	SB-25
Depth	SS-16	SS-17	SS-18	SS-19	SS-20	SS-3 *
Collection Date	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
LTR No.	Y605129	Y605130	Y605131	Y605132	Y605133	Y605145
Dilution Factor	97 M	106 M	88 M	92 M	100 M	2714 M

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	3549	819	378	474	ND	4866100
Bromochloromethane	80-120%	102	106	118	118	107	120
a,a,a Trifluorotoluene	80-120%	94	95	92	92	91	120

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:

Samples marked by * were rerun at higher dilution factors because previous runs were near or above the linear calibration range.



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605129-151
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/15/96

Sample Number	SB-25	SB-25A	SB-25A	SB-28	SB-23	
Depth	SS-5*	SS-1	SS-2	SS-1	SS-2*	
Collection Date	5/14/96	Y605147	Y605148	Y605150	Y605151	
LTR No.	Y605144	5/14/96	5/15/96	5/15/96	5/13/96	
Dilution Factor	1982 M	97 M	93 M	109 M	138 M	

Parameter	MDL, ppb	Concentration, ppb				
benzene	5	ND	ND	ND	ND	ND
Toluene	5	486100	ND	ND	ND	ND
ethylbenzene	5	30500	ND	ND	ND	ND
p- & m-Xylenes	5	177800	ND	ND	ND	ND
O-Xylenes	5	38200	ND	ND	ND	ND
1,1-Dichloroethene	5	714900	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	5	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	51900	ND	ND	ND	ND
1,1,2-Trichloroethane	5	26200	ND	ND	ND	ND
Tetrachloroethene	5	18228000	421	98	ND	10391
Bromochloromethane	80-120%	99	114	108	95	97
1,1,1-trifluorotoluene	80-120%	118	90	90	84	90

*IDL = Method Detection Limit

pm = parts per million

ppb = parts per billion

— = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:

Samples marked by * were rerun at higher dilution factors because previous runs were near or above the linear calibration range.



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605152-184
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/16/96

Sample Number	SB-28	SB-29	SB-29	SB-40	SB-40	SB-40
Depth	SS-2	SS-1	SS-2	SS-1	SS-1 D	SS-2
Collection Date	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96
LTR No.	Y605160	Y605159	Y605161	Y605156	Y605162	Y605157
Dilution Factor	6.4	6.7	6.1	6.5	5.3	5.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	31	52	ND
Bromochloromethane	80-120%	118	117	120	112	108	105
a,a,a Trifluorotoluene	80-120%	93	90	91	91	80	100

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

l = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605185-213
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/17/96

Sample Number	SB-32	SB-33	SB-33	SB-33	SB-33	SB-34
Depth	SS-4	SS-1	SS-2	SS-3	SB-4	SS-1
Collection Date	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96
LTR No.	Y605193	Y605195	Y605196	Y605197	Y605198	Y605199
Dilution Factor	5.0	6.8	5.3	5.7	193 M	5.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	19	105	14	49	348000	22
Bromochloromethane	80-120%	110	102	102	105	83	108
a,a,a Trifluorotoluene	80-120%	90	80	80	80	103	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605185-213
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/17/96

Sample Number	SB-34	SB-34	SB-34	SB-33		
Depth	SS-2	SS-3	SS-4	SS-3 D		
Collection Date	5/17/96	5/17/96	5/17/96	5/17/96		
LTR No.	Y605200	Y605201	Y605202	Y605209		
Dilution Factor	6.7	6.1	6.5	6.5		

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND		
Toluene	5	ND	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND	ND		
P& M-Xylenes	5	ND	ND	ND	ND		
O-Xylenes	5	ND	ND	ND	ND		
1.1 Dichloroethene	5	ND	ND	ND	ND		
trans 1.2 Dichloroethene	5	ND	ND	ND	ND		
cis 1.2 Dichloroethene	5	ND	ND	ND	ND		
1.1 Dichloroethane	5	ND	ND	ND	ND		
1.1.1 Trichloroethane	5	ND	ND	ND	ND		
Trichloroethene	5	ND	ND	ND	ND		
Tetrachloroethene	5	ND	ND	ND	17		
Bromochloromethane	80-120%	112	117	105	100		
a,a,a Trifluorotoluene	80-120%	80	81	80	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605214-233
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/19/96

Sample Number	SB-35	SB-35	SB-35	SB-35	SB-36	SB-36
Depth	SS-1	SS-2	SS-3	SS-4	S-1	SS-2
Collection Date	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96
LTR No.	Y605203	Y605204	Y605205	Y605206	Y605207	Y605208
Dilution Factor	8.0	6.9	5.7	7.5	8.1	6.9

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	623	21	15	23	ND	ND
Bromochloromethane	80-120%	100	102	107	116	103	98
a,a,a Trifluorotoluene	80-120%	89	92	94	92	87	86

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605214-233
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/19/96

Sample Number	SB-37	SB-37	SB-38	SB-38	SB-39	SB-39
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/17/96	5/17/96	5/19/96	5/19/96	5/19/96	5/19/96
LTR No.	Y605210	Y605211	Y605218	Y605219	Y605221	Y605222
Dilution Factor	9.3	6.9	9.6	7.5	8.7	6.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	75	ND	22	ND
Bromochloromethane	80-120%	99	113	104	109	102	105
a,a,a Trifluorotoluene	80-120%	86	89	86	87	88	87

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

! = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605152-184
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/16/96

Sample Number	SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Depth	SS-3	SS-1	SS-2	SS-3	SS-1	SS-2
Collection Date	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96
LTR No.	Y605158	Y605163	Y605164	Y605165	Y605169	Y605170
Dilution Factor	6.5	5.8	6.8	6.4	6.3	6.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
p & m-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	21	ND	ND	25	ND
Bromochloromethane	80-120%	120	118	108	112	108	111
1,1,1 Trifluorotoluene	80-120%	96	90	89	86	82	84

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

T = Compound Detected Below MDL

ND = None Detected

ME = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605152-184
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/16/96

Sample Number	SB-43	SB-43	SB-30			
Depth	SS-1	SS-2	SS-2			
Collection Date	5/16/96	5/16/96	5/16/96			
LTR No.	Y605174	Y605175	Y605172			
Dilution Factor	6.4	6.2	5.8			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
P & M-Xylenes	5	ND	ND	ND		
O-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	ND	ND	ND		
Tetrachloroethene	5	ND	ND	ND		
Bromochloromethane	80-120%	116	119	106		
2,4,6 Trifluorotoluene	80-120%	84	85	82		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

1 = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605185-213
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/17/96

Sample Number	SB-30	SB-31	SB-31	SB-44	SB-44	SB-45
Depth	SS-2	SS-1	SS-2	SS-1	SS-2	SS-1
Collection Date	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96
LTR No.	Y605173	Y605166	Y605167	Y605177	Y605178	Y605180
Dilution Factor	5.7	5.6	6.1	6.1	7.4	7.2

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	23	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	110	103	110	118	118	115
a,a,a Trifluorotoluene	80-120%	93	90	94	94	91	91

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605185-213
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/17/96

Sample Number	SB-45	SB-46	SB-46	SB-32	SB-32	SB-32
Depth	SS-2	SS-1	SS-2	SS-1	SS-2	SS-3
Collection Date	5/16/96	5/16/96	5/16/96	5/17/96	5/17/96	5/17/96
LTR No.	Y605181	Y605182	Y605183	Y605189	Y605191	Y605192
Dilution Factor	6.8	6.9	6.9	5.6	6.0	5.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	21	ND	416	55	47
Bromochloromethane	80-120%	118	115	103	110	115	114
a,a,a Trifluorotoluene	80-120%	92	88	87	88	91	88

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605214-233
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/19/96

Sample Number	SB-47	SB-47	SB-39	SB-48	SB-48	SB-49
Depth	SS-1	SS-2	SS-1 D	SS-1	SS-2	SS-1
Collection Date	5/19/96	5/19/96	5/19/96	5/19/96	5/19/96	5/19/96
LTR No.	Y605223	Y605224	Y605233	Y605227	Y605226	Y605228
Dilution Factor	7.5	6.5	7.8	8.0	6.1	7.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	112	ND	30	33	ND	20
Bromochloromethane	80-120%	93	110	92	100	104	89
a,a,a Trifluorotoluene	80-120%	84	85	80	80	81	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605234-260
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/20/96

Sample Number	SB-49	SB-50	SB-50	SB-51	SB-51	SB-52
Depth	SS-2	SS-1	SS-2	SS-1	SS-2	SS-1
Collection Date	5/19/96	5/19/96	5/19/96	5/20/96	5/20/96	5/20/96
LTR No.	Y605229	Y605230	Y605231	Y605238	Y605239	Y605241
Dilution Factor	6.4	8.3	6.6	6.0	5.2	7.5

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	46	ND	ND
Bromochloromethane	80-120%	98	92	109	121	116	115
a,a,a Trifluorotoluene	80-120%	96	92	94	80	90	87

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605234-260
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/20/96

Sample Number	SB-52	SB-51	SB-53	SB-53	SB-54	SB-54
Depth	SS-2	SS-1 D	SS-1	SS-2	SS-1	SS-2
Collection Date	5/20/96	5/20/96	5/20/96	5/20/96	5/20/96	5/20/96
LTR No.	Y605242	Y605243	Y605244	Y605246	Y605247	Y605248
Dilution Factor	5.0	7.8	6.4	6.3	6.3	6.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
p & m-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11	60	ND	ND	ND	ND
Bromochloromethane	80-120%	119	113	116	110	112	107
1,1,1,2,2,2 Hexachloroethane	80-120%	85	80	85	86	86	84

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

ME = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605234-260
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/20/96

Sample Number	SB-55	SB-55	SB-56	SB-56	SB-57	SB-57
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/20/96	5/20/96	5/20/96	5/20/96	5/20/96	5/20/96
LTR No.	Y605249	Y605250	Y605251	Y605252	Y605253	Y605254
Dilution Factor	5.9	6.8	6.1	5.6	7.3	6.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	478	41
Bromochloromethane	80-120%	102	92	100	95	97	83
a,a,a Trifluorotoluene	80-120%	84	83	82	81	80	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y606001-12
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 6/10/96

Sample Number	SB-57	SB-57				
Depth	SS-3	SS-4				
Collection Date	6/10/96	6/10/96				
LTR No.	Y606011	Y606012				
Dilution Factor	7.6	7.6				

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND			
Toluene	5	ND	ND			
Ethylbenzene	5	ND	ND			
P & M-Xylenes	5	ND	ND			
O-Xylenes	5	ND	ND			
1,1 Dichloroethene	5	ND	ND			
trans 1,2 Dichloroethene	5	ND	ND			
cis 1,2 Dichloroethene	5	ND	ND			
1,1 Dichloroethane	5	ND	ND			
1,1,1 Trichloroethane	5	ND	ND			
Trichloroethene	5	ND	ND			
Tetrachloroethene	5	ND	ND			
Bromochloromethane	80-120%	80	80			
a,a,a Trifluorotoluene	80-120%	97	108			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605234-260
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/20/96

Sample Number	SB-58	SB-58				
Depth	SS-1	SS-2				
Collection Date	5/20/96	5/20/96				
LTR No.	Y605256	Y605257				
Dilution Factor	7.2	6.9				
Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND			
Toluene	5	ND	ND			
Ethylbenzene	5	ND	ND			
P & M-Xylenes	5	ND	ND			
O-Xylenes	5	ND	ND			
1,1 Dichloroethene	5	ND	ND			
trans 1,2 Dichloroethene	5	ND	ND			
cis 1,2 Dichloroethene	5	ND	ND			
1,1 Dichloroethane	5	ND	ND			
1,1,1 Trichloroethane	5	ND	ND			
Trichloroethene	5	ND	ND			
Tetrachloroethene	5	54	ND			
Bromochloromethane	80-120%	98	113			
a,a,a Trifluorotoluene	80-120%	80	80			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605261-288
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/21/96

Sample Number	SB-59	SB-59	SB-33	SB-33	SB-33	SB-33
Depth	SS-1	SS-2	SS-5	SS-6	SS-7	SS-8
Collection Date	5/20/96	5/20/96	5/21/96	5/21/96	5/21/96	5/21/96
LTR No.	Y605259	Y605260	Y605265	Y605267	Y605268	Y605269
Dilution Factor	7.9	6.4	100 M	95 M	107 M	7.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	21	ND	72665	36800	85200	15
Bromochloromethane	80-120%	115	110	83	82	80	120
a,a,a Trifluorotoluene	80-120%	93	92	80	80	80	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

† = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605261-288
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/21/96

Sample Number	SB-60	SB-60	SB-61	SB-61	SB-62	SB-62
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/21/96	5/21/96	5/21/96	5/21/96	5/21/96	5/21/96
LTR No.	Y605275	Y605276	Y605270	Y605271	Y605272	Y605274
Dilution Factor	6.4	6.0	7.5	5.6	6.1	7.0

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	13	ND	39	122
Bromochloromethane	80-120%	109	96	117	98	96	112
1,1,1 Trifluorotoluene	80-120%	87	81	87	85	90	93

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605261-288
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/21/96

Sample Number	SB-63	SB-63	SB-33			
Depth	SS-1	SS-2	SS-8 D			
Collection Date	5/21/96	5/21/96	5/21/96			
LTR No.	Y605278	Y605279	Y605287			
Dilution Factor	6.5	6.4	5.8			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
P & M-Xylenes	5	ND	ND	ND		
O-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	66	14	ND		
Tetrachloroethene	5	716	430	185		
Bromochloromethane	80-120%	85	107	82		
a,a,a Trifluorotoluene	80-120%	80	85	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

l = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605289-316
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/22/96

Sample Number	SB-64	SB-64	SB-66	SB-66	SB-67	SB-67
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/21/96	5/21/96	5/22/96	5/22/96	5/22/96	5/22/96
LTR No.	Y605280	Y605281	Y605295	Y605297	Y605298	Y605299
Dilution Factor	6.7	6.2	6.7	5.8	6.7	5.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	53	ND
Tetrachloroethene	5	59	ND	21	ND	343	ND
Bromochloromethane	80-120%	106	105	89	112	90	98
a,a,a Trifluorotoluene	80-120%	82	89	89	89	81	84

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605289-316
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/22/96

Sample Number	SB-68	SB-68	SB-69	SB-69	SB-69	SB-70
Depth	SS-1	SS-2	SS-1	SS-2	SS-1 D	SS-1
Collection Date	5/22/96	5/22/96	5/22/96	5/22/96	5/22/96	5/22/96
LTR No.	Y605300	Y605301	Y605303	Y605304	Y605305	Y605306
Dilution Factor	6.2	6.6	6.6	7.1	6.9	5.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	55	ND	ND	ND	ND	ND
Tetrachloroethene	5	422	45	ND	ND	ND	ND
Bromochloromethane	80-120%	93	93	95	93	93	115
a,a,a Trifluorotoluene	80-120%	83	81	84	82	81	92

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

1 = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y606013-27
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 6/11/96

Sample Number	SB-68	SB-68	SB-67			
Depth	SS-3	SS-4	SS-3			
Collection Date	6/11/96	6/11/96	6/11/96			
LTR No.	Y606024	Y606025	Y606026			
Dilution Factor	8.4	7.1	7.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
P& M-Xylenes	5	ND	ND	ND		
O-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	ND	ND	ND		
Tetrachloroethene	5	139	68	ND		
Bromochloromethane	80-120%	95	97	83		
a,a,a Trifluorotoluene	80-120%	95	96	103		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605289-316
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/22/96

Sample Number	SB-70	SB-71	SB-71	SB-23	SB-22	
Depth	SS-2	SS-1	SS-2	SS-4	SS-4	
Collection Date	5/22/96	5/22/96	5/22/96	5/22/96	5/22/96	
LTR No.	Y605307	Y605309	Y605310	Y605311	Y605312	
Dilution Factor	5.1	6.4	6.7	7.2	7.2	

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	31	ND	ND	ND
Bromochloromethane	80-120%	95	99	98	90	83
a,a,a Trifluorotoluene	80-120%	81	80	80	83	85

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605317-343
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/23/96

Sample Number	SB-16	SB-72	SB-72	SB-65	SB-65	SB-73
Depth	SS-3	SS-1	SS-2	SS-1	SS-2	SS-1
Collection Date	5/22/96	5/22/96	5/22/96	5/22/96	5/22/96	5/23/96
LTR No.	Y605313	Y605315	Y605316	Y605322	Y605323	Y605324
Dilution Factor	5.8	6.3	6.4	7.1	6.2	7.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	94	82	93	95	93	93
a,a,a Trifluorotoluene	80-120%	93	81	88	N/A	N/A	87

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605317-343
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/23/96

Sample Number	SB-73	SB-74	SB-74	SB-75	SB-75	SB-75
Depth	SS-2	SS-1	SS-2	SS-1	SS-2	SS-1 D
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605325	Y605326	Y605327	Y605328	Y605330	Y605331
Dilution Factor	6.1	6.3	5.3	5.2	5.5	7.4

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	96	95	98	98	101	88
a,a,a Trifluorotoluene	80-120%	88	89	86	87	88	85

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605317-343
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/23/96

Sample Number	SB-76	SB-76	SB-77	SB-77	SB-78	SB-78
Depth	SS-1	SS-2	SS-1	SS-2	SS-1	SS-2
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605333	Y605334	Y605335	Y605336	Y605337	Y605338
Dilution Factor	7.9	6.5	6.6	5.5	5.8	6.1

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
p & m-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	25	ND
Bromochloromethane	80-120%	91	100	94	97	95	92
1,1,1 Trifluorotoluene	80-120%	85	85	84	84	81	83

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605317-343
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/23/96

Sample Number	SB-79	SB-79	SB-79			
Depth	SS-1*	SS-2*	SS-3			
Collection Date	5/23/96	5/23/96	5/23/96			
LTR No.	Y605341	Y605342	Y605343			
Dilution Factor	7.6	6.2	5.5			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
P & M-Xylenes	5	ND	ND	ND		
O-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	ND	ND	ND		
Tetrachloroethene	5	8581	ND	287		
Bromochloromethane	80-120%	88	87	86		
a,a,a Trifluorotoluene	80-120%	68	70	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

— = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:

Samples SB-79 SS-1 and SS-2 have PCE concentrations above the water extraction range. Both samples were extracted and preserved in methanol and will be re-run on Friday 5/24/96.



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y606013-27
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 6/11/96

Sample Number	SB-79	SB-79	SB-63	SB-63	SB-63	SB-63
Depth	SS-6	SS-7	SS-3	SS-4	SS-3 D	SS-5
Collection Date	6/10/96	6/10/96	6/11/96	6/11/96	6/11/96	6/11/96
LTR No.	Y606017	Y606018	Y606020	Y606021	Y606022	Y606023
Dilution Factor	7.4	6.0	8.7	8.9	7.1	8.1

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	6	ND	63	ND	23	ND
Bromochloromethane	80-120%	98	106	99	108	108	101
1,1,1 Trifluorotoluene	80-120%	113	104	110	109	101	98

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605344-374
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/24/96

Sample Number	SB-80	SB-80	SB-80	SB-80	SB-81	SB-81
Depth	SS-1	SS-2	SS-3	SS-4	SS-1	SS-2
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605348	Y605349	Y605350	Y605351	Y605352	Y605353
Dilution Factor	6.2	6.2	6.9	6.9	6.6	6.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	91	92	95	100	94	100
1,1,1,2,2,2 Hexachloroethane	80-120%	110	102	96	109	102	96

MDL = Method Detection Limit

pm = parts per million

ppb = parts per billion

l = Compound Detected Below MDL

ND = None Detected

ME = Methanol Extraction Method

Analyst:


W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605344-374
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/24/96

Sample Number	SB-81	SB-81	SB-82	SB-82	SB-82	SB-82
Depth	SS-3	SS-4	SS-1	SS-2	SS-3	SS-4
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605355	Y605354	Y605356	Y605357	Y606359	Y605360
Dilution Factor	6.7	5.8	5.9	5.3	6.9	5.9

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	92	98	98	93	101	90
a,a,a Trifluorotoluene	80-120%	99	96	96	94	96	93

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605344-374
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/24/96

Sample Number	SB-65	SB-65	SB-65	SB-83	SB-83	SB-83
Depth	SS-3	SS-4	SS-3 D	SS-1	SS-2	SS-3
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605361	Y605362	Y605363	Y605364	Y605365	Y605366
Dilution Factor	6.9	5.9	6.3	6.8	6.8	6.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
p & m-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	27	ND	18	ND	ND	ND
Bromochloromethane	80-120%	87	88	94	87	100	90
a,a,a Trifluorotoluene	80-120%	91	92	89	88	90	88

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605344-374
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/24/96

Sample Number	SB-83	SB-84	SB-84	SB-84	SB-84	SB-79
Depth	SS-4	SS-1	SS-2	SS-3	SS-4	SS-1
Collection Date	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96	5/23/96
LTR No.	Y605367	Y605368	Y605370	Y605371	Y605372	Y605373
Dilution Factor	5.0	4.5	6.1	6.9	6.1	113 M

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P& M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	12	ND	ND	ND	17600
Bromochloromethane	80-120%	87	95	88	93	96	82
a,a,a Trifluorotoluene	80-120%	89	89	88	86	86	85

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I.= Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605344-374
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/24/96

Sample Number	SB-79				
Depth	SS-2				
Collection Date	5/23/96				
LTR No.	Y605374				
Dilution Factor	117 M				

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND				
Toluene	5	ND				
Ethylbenzene	5	ND				
& M-Xylenes	5	ND				
O-Xylenes	5	ND				
1,1 Dichloroethene	5	ND				
trans 1,2 Dichloroethene	5	ND				
cis 1,2 Dichloroethene	5	418				
1,1 Dichloroethane	5	ND				
1,1,1 Trichloroethane	5	ND				
Trichloroethene	5	ND				
Tetrachloroethene	5	17600				
Bromochloromethane	80-120%	84				
1,1,1 Trifluorotoluene	80-120%	85				

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ID = None Detected

ME = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605375-402
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/28/96

Sample Number	SB-85	SB-85	SB-85	SB-85	SB-86	SB-86
Depth	SS-1	SS-2	SS-3	SS-4	SS-1	SS-2
Collection Date	5/28/96	5/28/96	5/28/96	5/28/96	5/28/96	5/28/96
LTR No.	Y605379	Y605380	Y605382	Y605383	Y605384	Y605385
Dilution Factor	5.8	7.1	6.7	5.8	6.4	6.7

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
P & M-Xylenes	5	ND	ND	ND	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	80-120%	118	120	111	81	109	116
a,a,a Trifluorotoluene	80-120%	96	96	92	80	87	91

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605375-402
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/28/96

Sample Number	SB-85	SB-87	SB-87	SB-79	SB-79	SB-88
Depth	SS-1 D	SS-1	SS-2	SS-4	SS-5	SS-1
Collection Date	5/28/96	5/28/96	5/28/96	5/28/96	5/28/96	5/28/96
LTR No.	Y605386	Y605390	Y605391	Y605395	Y605396	Y605398
Dilution Factor	6.3	6.5	6.9	6.5	7.4	6.6

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	16	ND	ND
P& M-Xylenes	5	ND	ND	ND	19	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	574	21	18
Bromochloromethane	80-120%	85	89	85	106	109	111
a,a,a Trifluorotoluene	80-120%	83	85	85	80	87	80

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605375-402
Matrix: Soil

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/28/96

Sample Number	SB-88					
Depth	SS-2					
Collection Date	5/28/96					
LTR No.	Y605399					
Dilution Factor	5.6					

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND				
Toluene	5	ND				
Ethylbenzene	5	ND				
o & m-Xylenes	5	ND				
p-Xylenes	5	ND				
1,1 Dichloroethene	5	ND				
trans 1,2 Dichloroethene	5	ND				
cis 1,2 Dichloroethene	5	ND				
1,1 Dichloroethane	5	ND				
1,1,1 Trichloroethane	5	ND				
Trichloroethene	5	ND				
Tetrachloroethene	5	ND				
	80-120%	97				
1,1,1 Trifluorotoluene	80-120%	82				

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605375-402
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/28/96

Sample Number		FB-1	FB-2	FB-3	MW-1	MW-2	MW-3
Depth		Blank	Blank	Blank			
Collection Date		5/28/96	5/28/96	5/28/96	5/28/96	5/28/96	5/28/96
LTR No.		Y605381	Y605394	Y605397	Y605401	Y605400	Y605402
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Parameter	MDL, ppb	Concentration, ppb					
Benzene	1	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	ND	ND	ND	ND	ND	ND
p & m-Xylenes	1	ND	ND	ND	ND	ND	ND
o-Xylenes	1	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	1	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	1	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	1	ND	ND	ND	ND	18	4
1,1 Dichloroethane	1	ND	ND	ND	ND	ND	1
1,1,1 Trichloroethane	1	ND	ND	ND	ND	7	2
Trichloroethene	1	ND	ND	ND	ND	206	10
Tetrachloroethene	1	ND	ND	ND	7	899	64
Bromochloromethane	80-120%	98	88	97	94	94	96
1,1,1 Trifluorotoluene	80-120%	92	85	81	80	83	87

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

1 = Compound Detected Below MDL

ND = None Detected

ME = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y606013-27
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 6/11/96

Sample Number	FB-1	FB-1				
Depth						
Collection Date	6/10/96	6/11/96				
LTR No.	Y606019	Y606027				
Dilution Factor	1.0	1.0				

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND			
Toluene	5	ND	ND			
Ethylbenzene	5	ND	ND			
P& M-Xylenes	5	ND	ND			
O-Xylenes	5	ND	ND			
1,1 Dichloroethene	5	ND	ND			
trans 1,2 Dichloroethene	5	ND	ND			
cis 1,2 Dichloroethene	5	ND	ND			
1,1 Dichloroethane	5	ND	ND			
1,1,1 Trichloroethane	5	ND	ND			
Trichloroethene	5	ND	ND			
Tetrachloroethene	5	ND	ND			
Bromochloromethane	80-120%	91	81			
a,a,a Trifluorotoluene	80-120%	113	99			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605317-343
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/23/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/23/96	5/23/96	5/23/96			
LTR No.	Y605332	Y605339	Y605340			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P & M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	83	93	82		
a,a,a Trifluorotoluene	80-120%	85	83	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605261-288
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/21/96

Sample Number	FB-1	FB-2	SB-25	SB-54	SB-63	SB-65
Depth	Blank	Blank				
Collection Date	5/21/96	5/21/96	5/21/96	5/21/96	5/21/96	5/21/96
LTR No.	Y605266	Y605282	Y605285	Y605286	Y605284	Y605288
Dilution Factor	1.0	1.0	8.9	1.0	1.0	1.0

Parameter	MDL, ppb	Concentration, ppb					
Benzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	33	ND	ND	ND
Ethylbenzene	5	ND	ND	4	ND	ND	ND
P& M-Xylenes	5	ND	ND	9	ND	ND	ND
O-Xylenes	5	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans 1,2 Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	5	ND	ND	ND	ND	48	ND
1,1 Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	5	ND	ND	ND	ND	I (0.7)	ND
Trichloroethene	5	ND	ND	ND	102	55	ND
Tetrachloroethene	5	ND	ND	2680	55	99	172
Bromochloromethane	80-120%	82	90	97	90	98	90
a,a,a Trifluorotoluene	80-120%	80	87	82	80	91	83

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605289-316
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/22/96

Sample Number	FB-3	FB-1	FB-2	FB-3		
Depth	Blank	Blank	Blank	Blank		
Collection Date	5/21/96	5/22/96	5/22/96	5/22/96		
LTR No.	Y605293	Y605294	Y605308	Y605314		
Dilution Factor	1.0	1.0	1.0	1.0		
Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND	ND	
Toluene	1	ND	ND	ND	ND	
Ethylbenzene	1	ND	ND	ND	ND	
P & M-Xylenes	1	ND	ND	ND	ND	
O-Xylenes	1	ND	ND	ND	ND	
1,1 Dichloroethene	1	ND	ND	ND	ND	
trans 1,2 Dichloroethene	1	ND	ND	ND	ND	
cis 1,2 Dichloroethene	1	ND	ND	ND	ND	
1,1 Dichloroethane	1	ND	ND	ND	ND	
1,1,1 Trichloroethane	1	ND	ND	ND	ND	
Trichloroethene	1	ND	ND	ND	ND	
Tetrachloroethene	1	ND	ND	ND	ND	
Bromochloromethane	80-120%	92	91	88	80	
1,1,1 Trifluorotoluene	80-120%	84	98	80	80	

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

1 = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605234-260
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/20/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/20/96	5/20/96	5/20/96			
LTR No.	Y605240	Y605255	Y605258			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	5	ND	ND	ND		
Toluene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
p & m-Xylenes	5	ND	ND	ND		
o-Xylenes	5	ND	ND	ND		
1,1 Dichloroethene	5	ND	ND	ND		
trans 1,2 Dichloroethene	5	ND	ND	ND		
cis 1,2 Dichloroethene	5	ND	ND	ND		
1,1 Dichloroethane	5	ND	ND	ND		
1,1,1 Trichloroethane	5	ND	ND	ND		
Trichloroethene	5	ND	ND	ND		
Tetrachloroethene	5	ND	ND	ND		
Bromochloromethane	80-120%	92	90	98		
1,1,1 Trifluorotoluene	80-120%	86	80	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

T = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605214-233
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/19/96

Sample Number		FB-1	FB-2				
Depth		Blank	Blank				
Collection Date		5/19/96	5/19/96				
LTR No.		Y605225	Y605232				
Dilution Factor		1.0	1.0				
	MDL, ppb	Concentration, ppb					
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	1	ND	ND				
	80-120%	96	103				
	80-120%	81	82				

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M= Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605185-213
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/17/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/17/96	5/17/96	5/17/96			
LTR No.	Y605194	Y605212	Y605213			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P & M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	98	97	108		
a,a,a Trifluorotoluene	80-120%	80	80	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605152-184
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/16/96

Sample Number		FB-1	FB-2	FB-3	SB-29		
Depth		Blank	Blank	Blank			
Collection Date		5/16/96	5/16/96	5/16/96	5/16/96		
LTR No.		Y605171	Y605176	Y605179	Y605184		
Dilution Factor		1.0	1.0	1.0	1.0		
Parameter	MDL, ppb	Concentration, ppb					
Benzene	1	ND	ND	ND	ND		
Toluene	1	ND	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND	ND		
p & m-Xylenes	1	ND	ND	ND	ND		
o-Xylenes	1	ND	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND	ND		
Trichloroethene	1	ND	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND	ND		
Bromochloromethane	80-120%	108	111	113	108		
1,1,1 Trifluorotoluene	80-120%	82	81	82	94		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

T = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:


W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11531
File No: Y605129-151
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/15/96

Sample Number	LAB DI	BLDG	FB-1			
Depth	Water	Water	Blank			
Collection Date	5/15/96	5/15/96	5/15/96			
LTR No.	Y605141	Y605142	Y605149			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P & M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	1.5	3.4	ND		
Bromochloromethane	80-120%	92	111	96		
1,1,1,3,3,3 Hexachlorocyclohexane	80-120%	91	93	82		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

— = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Analyst:

W. J. Staudt, Ph.D.

Comments:

PCE concentration levels of about 2 ppb in Field Blanks analyzed on 5/14/96 were caused by a contaminated methanol/surrogate standard mixture. The mixture has been replaced and since tested free of contamination



Land Tech Remedial, Inc.

Analytical Services

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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605103-136
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/14/96

<i>Sample Number</i> <i>Depth</i> <i>Collection Date</i> <i>LTR No.</i> <i>Dilution Factor</i>		FB-1	FB-2	FB-3			
		Blank	Blank	Blank			
		5/14/96	5/14/96	5/14/96			
		Y605113	Y605118	Y605135			
		1.0	1.0	1.0			
<i>MDL, ppb</i>		<i>Concentration, ppb</i>					
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	8	6			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	ND	ND	ND			
	<i>1</i>	2	29	1			
	<i>80-120%</i>	109	80	87			
	<i>80-120%</i>	84	82	80			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

M = Methanol Extraction Method

Comments:

Analyst:

W. J. Staudt, Ph.D.



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ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605082-102
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/13/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/13/96	5/13/96	5/13/96			
LTR No.	Y605092	Y605099	Y605102			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P & M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	91	112	94		
a,a,a Trifluorotoluene	80-120%	N/A	89	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605059-81
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/10/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/10/96	5/10/96	5/10/96			
LTR No.	Y605068	Y605074	Y605079			
Dilution Factor	1.0	1.0	1.0			
Parameter	MDL, µg/L	Concentration, µg/L				
Benzene	1	ND	ND	ND		
Toluene	1	ND	1	ND		
Ethylbenzene	1	ND	ND	ND		
p & m-Xylenes	1	ND	ND	ND		
o-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	114	99	112		
α,α,α Trifluorotoluene	80-120%	89	89	80		

MDL = Method Detection Limit

ppm = parts per million

pb = parts per billion

T = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605034-58
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/9/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/9/96	5/9/96	5/9/96			
LTR No.	Y605042	Y605051	Y605055			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, ppb	Concentration, ppb				
Benzene	1	ND	ND	ND		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P & M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	118	115	116		
1,1,1 Trifluorotoluene	80-120%	80	81	94		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

☐ = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605011-33
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/8/96

Sample Number	FB-1	FB-2	FB-3			
Depth	Blank	Blank	Blank			
Collection Date	5/8/96	5/8/96	5/8/96			
LTR No.	Y605021	Y605030	Y605032			
Dilution Factor	1.0	1.0	1.0			

Parameter	MDL, µg/L	Concentration, µg/L				
Benzene	1	ND	ND	2		
Toluene	1	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND		
P& M-Xylenes	1	ND	ND	ND		
O-Xylenes	1	ND	ND	ND		
1,1 Dichloroethene	1	ND	ND	ND		
trans 1,2 Dichloroethene	1	ND	ND	ND		
cis 1,2 Dichloroethene	1	ND	ND	ND		
1,1 Dichloroethane	1	ND	ND	ND		
1,1,1 Trichloroethane	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Bromochloromethane	80-120%	98	N/A	89		
a,a,a Trifluorotoluene	80-120%	81	80	80		

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:



Land Tech Remedial, Inc.

Analytical Services

31 Dubon Ct., Farmingdale, NY 11735
Tel: (516) 694-4040 Fax: (516) 694-4075

ANALYTICAL REPORT

Client: NMB004 Westbury, NY
Project ID #: 11431
File No: Y605011-33
Matrix: Water

Lab ID No.: LM-94-001
Method No.: 3810 Headspace @ 25 C
Method Title: Volatile Organics
Date Analyzed: 5/8/96

Sample Number	BLANK	BLANK				
Depth	Rinsate	Air Building				
Collection Date	5/7/96	5/7/96				
LTR No.	Y605015	Y605016				
Dilution Factor	1.0	1.0				

Parameter	MDL, µg/L	Concentration, µg/L				
Benzene	1	ND	ND			
Toluene	1	ND	2			
Ethylbenzene	1	ND	ND			
p & m-Xylenes	1	ND	ND			
o-Xylenes	1	ND	ND			
1,1 Dichloroethene	1	ND	ND			
trans 1,2 Dichloroethene	1	ND	ND			
cis 1,2 Dichloroethene	1	ND	ND			
1,1 Dichloroethane	1	ND	ND			
1,1,1 Trichloroethane	1	ND	ND			
Trichloroethene	1	ND	ND			
Tetrachloroethene	1	ND	ND			
Bromochloromethane	80-120%	N/A	120			
1,1,1,3,3,3 Hexafluoroisopropane	80-120%	89	87			

MDL = Method Detection Limit

ppm = parts per million

ppb = parts per billion

I = Compound Detected Below MDL

ND = None Detected

Analyst:

W. J. Staudt, Ph.D.

Comments:

A compound that elutes at the retention time of toluene was detected in the air/building blank. The presence of only toluene in samples SB-1 SS-1, SS-2, SS-3 is consistent with the building air as the most likely source of toluene rather than the soil.

APPENDIX C

Fixed Laboratory Summary Sheets

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Lab Sample ID: T605202-04

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Level: [low/med] LOW

% Moisture: 11.0

GC Column: DB-VRX ID: 0.45 (mm)

Client Sample ID No.

NMB004-^S8-2-^{SS}5-4-L21

Lab File ID: >I5212

Run Type: 80108020

Date Received: 05/14/96

Date Analyzed : 05/20/96

Dilution Factor: 1.0

CONCENTRATION UNITS:
UG/KG

CAS NO.

COMPOUND

U

74-87-3-----	Chloromethane	.56	U
74-83-9-----	Bromomethane	.56	U
124-48-1-----	Chlorodibromomethane	.56	U
75-01-4-----	Vinyl chloride	.56	U
75-00-3-----	Chloroethane	.56	U
110-75-8-----	2-Chloroethyl vinyl ether	.56	U
75-09-2-----	Methylene chloride	.56	U
75-69-4-----	Trichlorofluoromethane	.56	U
75-35-4-----	1,1-Dichloroethene	.56	U
75-34-3-----	1,1-Dichloroethane	.56	U
156-60-5-----	trans-1,2-Dichloroethene	.56	U
67-66-3-----	Chloroform	.56	U
107-06-2-----	1,2-Dichloroethane	.56	U
71-55-6-----	1,1,1-Trichloroethane	.56	U
56-23-5-----	Carbon tetrachloride	.56	U
75-27-4-----	Bromodichloromethane	.56	U
78-87-5-----	1,2-Dichloropropane	.56	U
79-01-6-----	Trichloroethene	.56	U
10061-02-6-----	trans-1,3-Dichloropropene	.56	U
10061-01-5-----	cis-1,3-Dichloropropene	.56	U
79-00-5-----	1,1,2-Trichloroethane	.56	U
75-25-2-----	Bromoform	.56	U
127-18-4-----	Tetrachloroethene	.56	U
108-90-7-----	Chlorobenzene	.56	U
541-73-1-----	1,3-Dichlorobenzene	.56	U
106-46-7-----	1,4-Dichlorobenzene	.56	U
95-50-1-----	1,2-Dichlorobenzene	.56	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.56	U
71-43-2-----	Benzene	.56	U
108-88-3-----	Toluene	.56	U
100-41-4-----	Ethylbenzene	.56	U
108-38-3-----	meta + para-Xylenes	1.10	U
95-47-6-----	ortho-Xylene	.56	U

000056

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605202-03

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Level: [low/med] LDW

% Moisture: 13.0

GC Column: DB-VRX ID: 0.45 (mm)

Lab File ID: >15211

Run Type: 80108020

Date Received: 05/14/96

Date Analyzed : 05/20/96

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND UG/KG

74-87-3-----	Chloromethane	.57	U
74-83-9-----	Bromomethane	.57	U
124-48-1-----	Chlorodibromomethane	.57	U
75-01-4-----	Vinyl chloride	.57	U
75-00-3-----	Chloroethane	.57	U
110-75-8-----	2-Chloroethyl vinyl ether	.57	U
75-09-2-----	Methylene chloride	.57	U
75-69-4-----	Trichlorofluoromethane	.57	U
75-35-4-----	1,1-Dichloroethene	.57	U
75-34-3-----	1,1-Dichloroethane	.57	U
156-60-5-----	trans-1,2-Dichloroethene	.57	U
67-66-3-----	Chloroform	.57	U
107-06-2-----	1,2-Dichloroethane	.57	U
71-55-6-----	1,1,1-Trichloroethane	.57	U
56-23-5-----	Carbon tetrachloride	.57	U
75-27-4-----	Bromodichloromethane	.57	U
78-87-5-----	1,2-Dichloropropane	.57	U
79-01-6-----	Trichloroethene	.57	U
10061-02-6-----	trans-1,3-Dichloropropene	.57	U
10061-01-5-----	cis-1,3-Dichloropropene	.57	U
79-00-5-----	1,1,2-Trichloroethane	.57	U
75-25-2-----	Bromoform	.57	U
127-18-4-----	Tetrachloroethene	.75	
108-90-7-----	Chlorobenzene	.57	U
541-73-1-----	1,3-Dichlorobenzene	.57	U
106-46-7-----	1,4-Dichlorobenzene	.57	U
95-50-1-----	1,2-Dichlorobenzene	.57	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.57	U
71-43-2-----	Benzene	.57	U
108-88-3-----	Toluene	.57	U
100-41-4-----	Ethylbenzene	.57	U
108-38-3-----	meta + para-Xylenes	1.10	U
95-47-6-----	ortho-Xylene	.57	U

000051

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605202-02

NMB004-^S8-9-^{SS}55-2-L21

Matrix: [soil/water] SOIL

Lab File ID: >H5210

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/14/96

% Moisture: 14.0

Date Analyzed: 05/20/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-87-3	Chloromethane	.58	U
74-83-9	Bromomethane	.58	U
124-48-1	Chlorodibromomethane	.58	U
75-01-4	Vinyl chloride	.58	U
75-00-3	Chloroethane	.58	U
110-75-8	2-Chloroethyl vinyl ether	.58	U
75-09-2	Methylene chloride	1.0	
75-69-4	Trichlorofluoromethane	.58	U
75-35-4	1,1-Dichloroethene	.58	U
75-34-3	1,1-Dichloroethane	.58	U
156-60-5	trans-1,2-Dichloroethene	.58	U
67-66-3	Chloroform	.58	U
107-06-2	1,2-Dichloroethane	.58	U
71-55-6	1,1,1-Trichloroethane	.58	U
56-23-5	Carbon tetrachloride	.58	U
75-27-4	Bromodichloromethane	.58	U
78-87-5	1,2-Dichloropropane	.58	U
79-01-6	Trichloroethene	.58	U
10061-02-6	trans-1,3-Dichloropropene	.58	U
10061-01-5	cis-1,3-Dichloropropene	.58	U
79-00-5	1,1,2-Trichloroethane	.58	U
75-25-2	Bromoform	.58	U
127-18-4	Tetrachloroethene	.58	U
108-90-7	Chlorobenzene	.58	U
541-73-1	1,3-Dichlorobenzene	.58	U
106-46-7	1,4-Dichlorobenzene	.58	U
95-50-1	1,2-Dichlorobenzene	.58	U
79-34-5	1,1,2,2-Tetrachloroethane	.58	U
71-43-2	Benzene	.58	U
108-88-3	Toluene	.58	U
100-41-4	Ethylbenzene	.58	U
108-38-3	meta + para-Xylenes	1.20	U
95-47-6	ortho-Xylene	.58	U

000046

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605202-01

INMB004-^SB-11-^{SS}55-1-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5209

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/14/96

% Moisture: 16.0

Date Analyzed: 05/20/96

GC Column: DB-URX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-87-3-----	Chloromethane	.60	U
74-83-9-----	Bromomethane	.60	U
124-48-1-----	Chlorodibromomethane	.60	U
75-01-4-----	Vinyl chloride	.60	U
75-00-3-----	Chloroethane	.60	U
110-75-8-----	2-Chloroethyl vinyl ether	.60	U
75-09-2-----	Methylene chloride	.60	U
75-69-4-----	Trichlorofluoromethane	.60	U
75-35-4-----	1,1-Dichloroethene	.60	U
75-34-3-----	1,1-Dichloroethane	.60	U
156-60-5-----	trans-1,2-Dichloroethene	.60	U
67-66-3-----	Chloroform	.60	U
107-06-2-----	1,2-Dichloroethane	.60	U
71-55-6-----	1,1,1-Trichloroethane	.60	U
56-23-5-----	Carbon tetrachloride	.60	U
75-27-4-----	Bromodichloromethane	.60	U
78-87-5-----	1,2-Dichloropropane	.60	U
79-01-6-----	Trichloroethene	.60	U
10061-02-6-----	trans-1,3-Dichloropropene	.60	U
10061-01-5-----	cis-1,3-Dichloropropene	.60	U
79-00-5-----	1,1,2-Trichloroethane	.60	U
75-25-2-----	Bromoform	.60	U
127-18-4-----	Tetrachloroethene	1.4	
108-90-7-----	Chlorobenzene	.60	U
541-73-1-----	1,3-Dichlorobenzene	.60	U
106-46-7-----	1,4-Dichlorobenzene	.60	U
95-50-1-----	1,2-Dichlorobenzene	.60	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.60	U
71-43-2-----	Benzene	.60	U
108-88-3-----	Toluene	.60	U
100-41-4-----	Ethylbenzene	.60	U
108-38-3-----	meta + para-Xylenes	1.20	U
95-47-6-----	ortho-Xylene	.60	U

000041

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605404-02

5216-553
NMB004-SB-16-55-3-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5285

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/25/96

% Moisture: 6.0

Date Analyzed: 05/28/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.53	U
74-83-9-----	Bromomethane	.53	U
124-48-1-----	Chlorodibromomethane	.53	U
75-01-4-----	Vinyl chloride	.53	U
75-00-3-----	Chloroethane	.53	U
110-75-8-----	2-Chloroethyl vinyl ether	.53	U
75-09-2-----	Methylene chloride	.53	U
75-69-4-----	Trichlorofluoromethane	.53	U
75-35-4-----	1,1-Dichloroethene	.53	U
75-34-3-----	1,1-Dichloroethane	.53	U
156-60-5-----	trans-1,2-Dichloroethene	.53	U
67-66-3-----	Chloroform	.53	U
107-06-2-----	1,2-Dichloroethane	.53	U
71-55-6-----	1,1,1-Trichloroethane	.53	U
56-23-5-----	Carbon tetrachloride	.53	U
75-27-4-----	Bromodichloromethane	.53	U
78-87-5-----	1,2-Dichloropropane	.53	U
79-01-6-----	Trichloroethene	.53	U
10061-02-6-----	trans-1,3-Dichloropropene	.53	U
10061-01-5-----	cis-1,3-Dichloropropene	.53	U
79-00-5-----	1,1,2-Trichloroethane	.53	U
75-25-2-----	Bromoform	.53	U
127-18-4-----	Tetrachloroethene	.53	U
108-90-7-----	Chlorobenzene	.53	U
541-73-1-----	1,3-Dichlorobenzene	.53	U
106-46-7-----	1,4-Dichlorobenzene	.53	U
95-50-1-----	1,2-Dichlorobenzene	.53	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.53	U
71-43-2-----	Benzene	.53	U
108-88-3-----	Toluene	.53	U
100-41-4-----	Ethylbenzene	.53	U
108-38-3-----	meta + para-Xylenes	.53	U
95-47-6-----	ortho-Xylene	.53	U

000043

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605202-05

NMB004-^SB-17-^{SS}-1-L2

Matrix: [soil/water] SOIL

Lab File ID: >I5213

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/14/96

% Moisture: 21.0

Date Analyzed: 05/20/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.63	U
74-83-9-----	Bromomethane	.63	U
124-48-1-----	Chlorodibromomethane	.63	U
75-01-4-----	Vinyl chloride	.63	U
75-00-3-----	Chloroethane	.63	U
110-75-8-----	2-Chloroethyl vinyl ether	.63	U
75-09-2-----	Methylene chloride	.63	U
75-69-4-----	Trichlorofluoromethane	.63	U
75-35-4-----	1,1-Dichloroethene	.63	U
75-34-3-----	1,1-Dichloroethane	.63	U
156-60-5-----	trans-1,2-Dichloroethene	.63	U
67-66-3-----	Chloroform	.63	U
107-06-2-----	1,2-Dichloroethane	.63	U
71-55-6-----	1,1,1-Trichloroethane	.63	U
56-23-5-----	Carbon tetrachloride	.63	U
75-27-4-----	Bromodichloromethane	.63	U
78-87-5-----	1,2-Dichloropropane	.63	U
79-01-6-----	Trichloroethene	.63	U
10061-02-6-----	trans-1,3-Dichloropropene	.63	U
10061-01-5-----	cis-1,3-Dichloropropene	.63	U
79-00-5-----	1,1,2-Trichloroethane	.63	U
75-25-2-----	Bromoform	.63	U
127-18-4-----	Tetrachloroethene	34	
108-90-7-----	Chlorobenzene	.63	U
541-73-1-----	1,3-Dichlorobenzene	.63	U
106-46-7-----	1,4-Dichlorobenzene	.63	U
95-50-1-----	1,2-Dichlorobenzene	.63	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.63	U
71-43-2-----	Benzene	.63	U
108-88-3-----	Toluene	.63	U
100-41-4-----	Ethylbenzene	.63	U
108-38-3-----	meta + para-Xylenes	1.30	U
95-47-6-----	ortho-Xylene	.63	U

000061

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: 1605281-01

NMB004-~~5~~ B-18-SS-2-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5228

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/18/96

% Moisture: 1.0

Date Analyzed: 05/21/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-87-3-----	Chloromethane	.51	U
74-83-9-----	Bromomethane	.51	U
124-48-1-----	Chlorodibromomethane	.51	U
75-01-4-----	Vinyl chloride	.51	U
75-00-3-----	Chloroethane	.51	U
110-75-8-----	2-Chloroethyl vinyl ether	.51	U
75-09-2-----	Methylene chloride	.51	U
75-69-4-----	Trichlorofluoromethane	.51	U
75-35-4-----	1,1-Dichloroethene	.51	U
75-34-3-----	1,1-Dichloroethane	.51	U
156-60-5-----	trans-1,2-Dichloroethene	.51	U
67-66-3-----	Chloroform	.51	U
107-06-2-----	1,2-Dichloroethane	.51	U
71-55-6-----	1,1,1-Trichloroethane	.51	U
56-23-5-----	Carbon tetrachloride	.51	U
75-27-4-----	Bromodichloromethane	.51	U
78-87-5-----	1,2-Dichloropropane	.51	U
79-01-6-----	Trichloroethene	.51	U
U061-02-6-----	trans-1,3-Dichloropropene	.51	U
UU61-01-5-----	cis-1,3-Dichloropropene	.51	U
79-00-5-----	1,1,2-Trichloroethane	.51	U
75-25-2-----	Bromoform	.51	U
127-18-4-----	Tetrachloroethene	.95	
108-90-7-----	Chlorobenzene	.51	U
541-73-1-----	1,3-Dichlorobenzene	.51	U
106-46-7-----	1,4-Dichlorobenzene	.51	U
95-50-1-----	1,2-Dichlorobenzene	.51	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.51	U
71-43-2-----	Benzene	.51	U
108-88-3-----	Toluene	.51	U
100-41-4-----	Ethylbenzene	.51	U
108-38-3-----	meta + para-Xylenes	1.00	U
95-47-6-----	ortho-Xylene	.51	U

000051

SAMPLE NO.

Signal 1

SB 22-SS-1-L218

Tab Name: LRI

Contract:

Project No. _____

Site:

Location:

Group:

atrix: (soil/water)

SOIL

Lab Sample ID: T605281-2

Sample wt/vol:

4.0

(g/mL)

G

Lab File ID: D2217.D

:vel: (low/med)

MED

Date Received: 5/18/96

% Moisture: not dec.

19

Date Analyzed: 5/25/96

Column RTX-502

ID: 0.53 (mm)

Dilution Factor: 4.0

Soil Extract Volume:

10000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/Kg

Q

[illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

5822-SS-1-L218

Lab Name: LRI

Contract: _____

Project No. _____

Site: _____

Location: _____

Group: _____

Matrix: (soil/water)

SOIL

Lab Sample ID: T605281-2

Sample wt/vol: _____

4.0

(g/mL)

G

Lab File ID: C2217.D

Level: (low/med)

MED

Date Received: 5/18/96

% Moisture: not dec.

19

Date Analyzed: 5/25/96

Column _____

0

ID: 0.53 (mm)

Dilution Factor: 4.0

Soil Extract Volume: _____

10000 (uL)

Soil Aliquot Volume: _____

100 (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/Kg

Q

74-87-3	Chloromethane	310	U
75-01-04	Vinyl Chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
95-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	310	U
75-09-2	Methylene Chloride	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
75-34-3	1,1-Dichloroethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	310	U
56-23-5	Carbon tetrachloride	310	U
107-06-2	1,2-Dichloroethane	310	U
79-01-6	Trichloroethene	310	U
78-87-5	1,2-Dichloropropane	310	U
75-27-4	Bromodichloromethane	310	U
100-75-8	2-Chloroethyl vinyl ether	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U
127-18-4	Tetrachloroethene	13000	
124-48-1	Dibromochloromethane	310	U
75-25-2	Bromoform	310	U
79-34-5	1,1,2,2-Tetrachloroethane	310	U
108-90-7	Chlorobenzene	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U

000058

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

58 25-SS-4-L218

Lab Name: LRI

Contract: _____

Project No. _____

Site: _____

Location: _____

Group: _____

Matrix: (soil/water)

SOIL

Lab Sample ID: T605281-3

Sample wt/vol:

4.0

(g/mL)

G

Lab File ID: C2197.D

Level: (low/med)

MED

Date Received: 5/18/96

% Moisture: not dec.

11

Date Analyzed: 5/23/96

GC Column RTX-5

ID: 0.53 (mm)

Dilution Factor: 10000.0

Soil Extract Volume:

10000 (uL)

Soil Aliquot Volume:

100 (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/Kg

Q

74-87-3	Chloromethane	700000	U
75-01-04	Vinyl Chloride	700000	U
74-83-9	Bromomethane	700000	U
75-00-3	Chloroethane	700000	U
95-69-4	Trichlorofluoromethane	700000	U
75-35-4	1,1-Dichloroethene	700000	U
75-09-2	Methylene Chloride	700000	U
156-60-5	trans-1,2-Dichloroethene	700000	U
75-34-3	1,1-Dichloroethane	700000	U
67-66-3	Chloroform	700000	U
71-55-6	1,1,1-Trichloroethane	700000	U
56-23-5	Carbon tetrachloride	700000	U
107-06-2	1,2-Dichloroethane	700000	U
79-01-6	Trichloroethene	700000	U
78-87-5	1,2-Dichloropropane	700000	U
75-27-4	Bromodichloromethane	700000	U
100-75-8	2-Chloroethyl vinyl ether	700000	U
10061-01-5	cis-1,3-Dichloropropene	700000	U
10061-02-6	trans-1,3-Dichloropropene	700000	U
79-00-5	1,1,2-Trichloroethane	700000	U
127-18-4	Tetrachloroethene	2300000	
124-48-1	Dibromochloromethane	700000	U
75-25-2	Bromoform	700000	U
79-34-5	1,1,2,2-Tetrachloroethane	700000	U
108-90-7	Chlorobenzene	700000	U
541-73-1	1,3-Dichlorobenzene	700000	U
106-46-7	1,4-Dichlorobenzene	700000	U
95-50-1	1,2-Dichlorobenzene	700000	U

000062

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605281-04

NMB004-SB-25-SS-19-L

Matrix: [soil/water] SOIL

Lab File ID: >H5229

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/18/96

% Moisture: 2.0

Date Analyzed: 05/21/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-87-3-----	Chloromethane	.51	U
74-83-9-----	Bromomethane	.51	U
124-48-1-----	Chlorodibromomethane	.51	U
75-01-4-----	Vinyl chloride	.51	U
75-00-3-----	Chloroethane	.51	U
110-75-8-----	2-Chloroethyl vinyl ether	.51	U
75-09-2-----	Methylene chloride	.51	U
75-69-4-----	Trichlorofluoromethane	.51	U
75-35-4-----	1,1-Dichloroethene	.51	U
75-34-3-----	1,1-Dichloroethane	.51	U
156-60-5-----	trans-1,2-Dichloroethene	.51	U
67-66-3-----	Chloroform	.51	U
107-06-2-----	1,2-Dichloroethane	.51	U
71-55-6-----	1,1,1-Trichloroethane	.51	U
56-23-5-----	Carbon tetrachloride	.51	U
75-27-4-----	Bromodichloromethane	.51	U
78-87-5-----	1,2-Dichloropropane	.51	U
79-01-6-----	Trichloroethene	.51	U
10061-02-6-----	trans-1,3-Dichloropropene	.51	U
10061-01-5-----	cis-1,3-Dichloropropene	.51	U
79-00-5-----	1,1,2-Trichloroethane	.51	U
75-25-2-----	Bromoform	.51	U
127-18-4-----	Tetrachloroethene	.51	U
108-90-7-----	Chlorobenzene	.51	U
541-73-1-----	1,3-Dichlorobenzene	.51	U
106-46-2-----	1,4-Dichlorobenzene	.51	U
95-50-1-----	1,2-Dichlorobenzene	.51	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.51	U
71-43-2-----	Benzene	.51	U
108-88-3-----	Toluene	.51	U
100-41-4-----	Ethylbenzene	.51	U
108-38-3-----	meta + para-Xylenes	1.00	U
95-47-6-----	ortho-Xylene	.51	U

000065

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605341-01

B S 558
INM004-B-33-55-L218

Matrix: [soil/water] SOIL

Lab File ID: >H5257

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/23/96

% Moisture: 3.4

Date Analyzed: 05/24/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-87-3-----	Chloromethane	.52	U
74-83-9-----	Bromomethane	.52	U
124-48-1-----	Chlorodibromomethane	.52	U
75-01-4-----	Vinyl chloride	.52	U
75-00-3-----	Chloroethane	.52	U
110-75-8-----	2-Chloroethyl vinyl ether	.52	U
75-09-2-----	Methylene chloride	.52	U
75-69-4-----	Trichlorofluoromethane	.52	U
75-35-4-----	1,1-Dichloroethene	.52	U
75-34-3-----	1,1-Dichloroethane	.52	U
156-60-5-----	trans-1,2-Dichloroethene	.52	U
67-66-3-----	Chloroform	.52	U
107-06-2-----	1,2-Dichloroethane	.52	U
71-55-6-----	1,1,1-Trichloroethane	.52	U
56-23-5-----	Carbon tetrachloride	.52	U
75-27-4-----	Bromodichloromethane	.52	U
78-87-5-----	1,2-Dichloropropane	.52	U
79-01-6-----	Trichloroethene	.52	U
10061-02-6-----	trans-1,3-Dichloropropene	.52	U
10061-01-5-----	cis-1,3-Dichloropropene	.52	U
79-00-5-----	1,1,2-Trichloroethane	.52	U
75-25-2-----	Bromoform	.52	U
127-18-4-----	Tetrachloroethene	.52	U
108-90-7-----	Chlorobenzene	.52	U
541-73-1-----	1,3-Dichlorobenzene	.52	U
106-46-7-----	1,4-Dichlorobenzene	.52	U
95-50-1-----	1,2-Dichlorobenzene	.52	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.52	U
71-43-2-----	Benzene	.52	U
108-88-3-----	Toluene	.52	U
100-41-4-----	Ethylbenzene	.52	U
108-38-3-----	meta + para-Xylenes	1.00	U
95-47-6-----	ortho-Xylene	.52	U

000037

DOF: 1.04

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605341-02

INM004-~~7~~B-60-~~55~~-1-L21

Matrix: [soil/water] SOIL

Lab File ID: >H5281

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/23/96

% Moisture: 5.9

Date Analyzed: 05/28/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

U

74-82-3-----	Chloromethane	.53	U
74-83-9-----	Bromomethane	.53	U
124-48-1-----	Chlorodibromomethane	.53	U
75-01-4-----	Vinyl chloride	.53	U
75-00-3-----	Chloroethane	.53	U
110-75-8-----	2-Chloroethyl vinyl ether	.53	U
75-09-2-----	Methylene chloride	.53	U
75-69-4-----	Trichlorofluoromethane	.53	U
75-35-4-----	1,1-Dichloroethene	.53	U
75-34-3-----	1,1-Dichloroethane	.53	U
156-60-5-----	trans-1,2-Dichloroethene	.53	U
67-66-3-----	Chloroform	.53	U
107-06-2-----	1,2-Dichloroethane	.53	U
71-55-6-----	1,1,1-Trichloroethane	.53	U
56-23-5-----	Carbon tetrachloride	.53	U
75-27-4-----	Bromodichloromethane	.53	U
78-87-5-----	1,2-Dichloropropane	.53	U
79-01-6-----	Trichloroethene	.53	U
11061-02-6-----	trans-1,3-Dichloropropene	.53	U
10061-01-5-----	cis-1,3-Dichloropropene	.53	U
79-00-5-----	1,1,2-Trichloroethane	.53	U
75-25-2-----	Bromoform	.53	U
127-18-4-----	Tetrachloroethene	.53	U
108-90-7-----	Chlorobenzene	.53	U
541-73-1-----	1,3-Dichlorobenzene	.53	U
106-46-7-----	1,4-Dichlorobenzene	.53	U
95-50-1-----	1,2-Dichlorobenzene	.53	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.53	U
71-43-2-----	Benzene	.53	U
108-88-3-----	Toluene	.53	U
100-41-4-----	Ethylbenzene	.53	U
108-38-3-----	meta + para-Xylenes	1.10	U
95-47-6-----	ortho-Xylene	.53	U

000042

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605404-01

NMB004-^S8B-63-^{SS}55-1-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5284

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/25/96

% Moisture: 8.0

Date Analyzed: 05/28/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND UG/KG Q

74-87-3	-----Chloromethane	.54	U
74-83-9	-----Bromomethane	.54	U
124-48-1	-----Chlorodibromomethane	.54	U
75-01-4	-----Vinyl chloride	.54	U
75-00-3	-----Chloroethane	.54	U
110-75-8	-----2-Chloroethyl vinyl ether	.54	U
75-09-2	-----Methylene chloride	.54	U
75-69-4	-----Trichlorofluoromethane	.54	U
75-35-4	-----1,1-Dichloroethene	.54	U
75-34-3	-----1,1-Dichloroethane	.54	U
156-60-5	-----trans-1,2-Dichloroethene	.54	U
67-66-3	-----Chloroform	.54	U
107-06-2	-----1,2-Dichloroethane	.54	U
71-55-6	-----1,1,1-Trichloroethane	.54	U
56-23-5	-----Carbon tetrachloride	.54	U
75-27-4	-----Bromodichloromethane	.54	U
78-87-5	-----1,2-Dichloropropane	.54	U
79-01-6	-----Trichloroethene	.54	U
10061-02-6	-----trans-1,3-Dichloropropene	.54	U
10061-01-5	-----cis-1,3-Dichloropropene	.54	U
79-00-5	-----1,1,2-Trichloroethane	.54	U
75-25-2	-----Bromoform	.54	U
127-18-4	-----Tetrachloroethene	190	
108-90-7	-----Chlorobenzene	.54	U
541-73-1	-----1,3-Dichlorobenzene	.54	U
106-46-7	-----1,4-Dichlorobenzene	.54	U
95-50-1	-----1,2-Dichlorobenzene	.54	U
79-34-5	-----1,1,2,2-Tetrachloroethane	.54	U
71-43-2	-----Benzene	.54	U
108-88-3	-----Toluene	.54	U
100-41-4	-----Ethylbenzene	.54	U
108-38-3	-----meta + para-Xylenes	.54	U
95-47-6	-----ortho-Xylene	.54	U

000033

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605404-04

NMB004-SB-64-⁵⁵~~55~~-2-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5287 *mtre*

8/6/86

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/25/96

% Moisture: 3.0

Date Analyzed : 05/28/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.52	U
74-83-9-----	Bromomethane	.52	U
124-48-1-----	Chlorodibromomethane	.52	U
75-01-4-----	Vinyl chloride	.52	U
75-00-3-----	Chloroethane	.52	U
110-75-8-----	2-Chloroethyl vinyl ether	.52	U
75-09-2-----	Methylene chloride	.52	U
75-69-4-----	Trichlorofluoromethane	.52	U
75-35-4-----	1,1-Dichloroethene	.52	U
75-34-3-----	1,1-Dichloroethane	.52	U
156-60-5-----	trans-1,2-Dichloroethene	.52	U
67-66-3-----	Chloroform	.52	U
107-06-2-----	1,2-Dichloroethane	.52	U
71-55-6-----	1,1,1-Trichloroethane	.52	U
56-23-5-----	Carbon tetrachloride	.52	U
75-27-4-----	Bromodichloromethane	.52	U
78-87-5-----	1,2-Dichloropropane	.52	U
79-01-6-----	Trichloroethene	.52	U
10061-02-6-----	trans-1,3-Dichloropropene	.52	U
10061-01-5-----	cis-1,3-Dichloropropene	.52	U
79-00-5-----	1,1,2-Trichloroethane	.52	U
75-25-2-----	Bromoform	.52	U
127-18-4-----	Tetrachloroethene	.52	U
108-90-7-----	Chlorobenzene	.52	U
541-73-1-----	1,3-Dichlorobenzene	.52	U
106-46-7-----	1,4-Dichlorobenzene	.52	U
95-50-1-----	1,2-Dichlorobenzene	.52	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.52	U
71-43-2-----	Benzene	.52	U
108-88-3-----	Toluene	.52	U
100-41-4-----	Ethylbenzene	.52	U
108-38-3-----	meta + para-Xylenes	.52	U
95-47-6-----	ortho-Xylene	.52	U

000053

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605443-01

SB-65-SS-3

Matrix: [soil/water] SOIL

Lab File ID: >H5379

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/30/96

% Moisture: 13.0

Date Analyzed: 06/03/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.57	U
74-83-9-----	Bromomethane	.57	U
124-48-1-----	Chlorodibromomethane	.57	U
75-01-4-----	Vinyl chloride	.57	U
75-00-3-----	Chloroethane	.57	U
110-75-8-----	2-Chloroethyl vinyl ether	.57	U
75-09-2-----	Methylene chloride	.57	U
75-69-4-----	Trichlorofluoromethane	.57	U
75-35-4-----	1,1-Dichloroethene	.57	U
75-34-3-----	1,1-Dichloroethane	.57	U
156-60-5-----	trans-1,2-Dichloroethene	.57	U
67-66-3-----	Chloroform	.57	U
107-06-2-----	1,2-Dichloroethane	.57	U
71-55-6-----	1,1,1-Trichloroethane	.57	U
56-23-5-----	Carbon tetrachloride	.57	U
75-27-4-----	Bromodichloromethane	.57	U
78-87-5-----	1,2-Dichloropropane	.57	U
79-01-6-----	Trichloroethene	.57	U
10061-02-6-----	trans-1,3-Dichloropropene	.57	U
10061-01-5-----	cis-1,3-Dichloropropene	.57	U
79-00-5-----	1,1,2-Trichloroethane	.57	U
75-25-2-----	Bromoform	.57	U
127-18-4-----	Tetrachloroethene	2.0	
108-90-7-----	Chlorobenzene	.57	U
541-73-1-----	1,3-Dichlorobenzene	.57	U
106-46-7-----	1,4-Dichlorobenzene	.57	U
95-50-1-----	1,2-Dichlorobenzene	.57	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.57	U
71-43-2-----	Benzene	.57	U
108-88-3-----	Toluene	.65	
100-41-4-----	Ethylbenzene	.57	U
108-38-3-----	meta + para-Xylenes	.57	U
95-47-6-----	ortho-Xylene	.57	U

000028

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605404-03

55
NMB004-SB-74-55-2-L2
mr

Matrix: [soil/water] SOIL

Lab File ID: >H5298

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/25/96

% Moisture: 8.0

Date Analyzed : 05/29/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3	Chloromethane	.54	U
74-83-9	Bromomethane	.54	U
124-48-1	Chlorodibromomethane	.54	U
75-01-4	Vinyl chloride	.54	U
75-00-3	Chloroethane	.54	U
110-75-8	2-Chloroethyl vinyl ether	.54	U
75-09-2	Methylene chloride	.54	U
75-69-4	Trichlorofluoromethane	.54	U
75-35-4	1,1-Dichloroethene	.54	U
75-34-3	1,1-Dichloroethane	.54	U
156-60-5	trans-1,2-Dichloroethene	.54	U
67-66-3	Chloroform	.54	U
107-06-2	1,2-Dichloroethane	.54	U
71-55-6	1,1,1-Trichloroethane	.54	U
56-23-5	Carbon tetrachloride	.54	U
75-27-4	Bromodichloromethane	.54	U
78-87-5	1,2-Dichloropropane	.54	U
79-01-6	Trichloroethene	.54	U
10061-02-6	trans-1,3-Dichloropropene	.54	U
10061-01-5	cis-1,3-Dichloropropene	.54	U
79-00-5	1,1,2-Trichloroethane	.54	U
75-25-2	Bromoform	.54	U
127-18-4	Tetrachloroethene	.54	U
108-90-7	Chlorobenzene	.54	U
541-73-1	1,3-Dichlorobenzene	.54	U
106-46-7	1,4-Dichlorobenzene	.54	U
95-50-1	1,2-Dichlorobenzene	.54	U
79-34-5	1,1,2,2-Tetrachloroethane	.54	U
71-43-2	Benzene	.54	U
108-88-3	Toluene	.54	U
100-41-4	Ethylbenzene	.54	U
108-38-3	meta + para-Xylenes	.54	U
95-47-6	ortho-Xylene	.54	U

000048

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605404-05

NMB004-SB-~~64~~⁵⁵-78-1-L2

Matrix: [soil/water] SOIL

Lab File ID: >H5288

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/25/96

% Moisture: 8.0

Date Analyzed: 05/28/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.54	U
74-83-9-----	Bromomethane	.54	U
124-48-1-----	Chlorodibromomethane	.54	U
75-01-4-----	Vinyl chloride	.54	U
75-00-3-----	Chloroethane	.54	U
110-75-8-----	2-Chloroethyl vinyl ether	.54	U
75-09-2-----	Methylene chloride	.54	U
75-69-4-----	Trichlorofluoromethane	.54	U
75-35-4-----	1,1-Dichloroethene	.54	U
75-34-3-----	1,1-Dichloroethane	.54	U
156-60-5-----	trans-1,2-Dichloroethene	.54	U
67-66-3-----	Chloroform	.54	U
107-06-2-----	1,2-Dichloroethane	.54	U
71-55-6-----	1,1,1-Trichloroethane	.54	U
56-23-5-----	Carbon tetrachloride	.54	U
75-27-4-----	Bromodichloromethane	.54	U
78-87-5-----	1,2-Dichloropropane	.54	U
79-01-6-----	Trichloroethene	.54	U
10061-02-6-----	trans-1,3-Dichloropropene	.54	U
10061-01-5-----	cis-1,3-Dichloropropene	.54	U
79-00-5-----	1,1,2-Trichloroethane	.54	U
75-25-2-----	Bromoform	.54	U
127-18-4-----	Tetrachloroethene	7.3	
108-90-7-----	Chlorobenzene	.54	U
541-73-1-----	1,3-Dichlorobenzene	.54	U
106-46-7-----	1,4-Dichlorobenzene	.54	U
95-50-1-----	1,2-Dichlorobenzene	.54	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.54	U
71-43-2-----	Benzene	.54	U
108-88-3-----	Toluene	.54	U
100-41-4-----	Ethylbenzene	.54	U
108-38-3-----	meta + para-Xylenes	.54	U
95-47-6-----	ortho-Xylene	.54	U

000058

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605443-02

SB-83-SS-4

Matrix: [soil/water] SOIL

Lab File ID: >H5377

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/30/96

% Moisture: 15.0

Date Analyzed : 06/03/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

UG/KG

Q

74-87-3-----	Chloromethane	.59	U
74-83-9-----	Bromomethane	.59	U
124-48-1-----	Chlorodibromomethane	.59	U
75-01-4-----	Vinyl chloride	.59	U
75-00-3-----	Chloroethane	.59	U
110-75-8-----	2-Chloroethyl vinyl ether	.59	U
75-09-2-----	Methylene chloride	.59	U
75-69-4-----	Trichlorofluoromethane	.59	U
75-35-4-----	1,1-Dichloroethene	.59	U
75-34-3-----	1,1-Dichloroethane	.59	U
156-60-5-----	trans-1,2-Dichloroethene	.59	U
67-66-3-----	Chloroform	.59	U
107-06-2-----	1,2-Dichloroethane	.59	U
71-55-6-----	1,1,1-Trichloroethane	.59	U
56-23-5-----	Carbon tetrachloride	.59	U
75-27-4-----	Bromodichloromethane	.59	U
78-87-5-----	1,2-Dichloropropane	.59	U
79-01-6-----	Trichloroethene	.59	U
10061-02-6-----	trans-1,3-Dichloropropene	.59	U
10061-01-5-----	cis-1,3-Dichloropropene	.59	U
79-00-5-----	1,1,2-Trichloroethane	.59	U
75-25-2-----	Bromoform	.59	U
127-18-4-----	Tetrachloroethene	1.0	
108-90-7-----	Chlorobenzene	.59	U
541-73-1-----	1,3-Dichlorobenzene	.59	U
106-46-7-----	1,4-Dichlorobenzene	.59	U
95-50-1-----	1,2-Dichlorobenzene	.59	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.59	U
71-43-2-----	Benzene	.59	U
108-88-3-----	Toluene	2.7	
100-41-4-----	Ethylbenzene	.59	U
108-38-3-----	meta + para-Xylenes	.59	U
95-47-6-----	ortho-Xylene	.59	U

000033

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.

Lab Name: LRI

Lab Sample ID: T605443-03

SB-84-SS-1

Matrix: [soil/water] SOIL

Lab File ID: >H5378

Sample wt/vol: 5.0 [g/mL] G

Run Type: 80108020

Level: [low/med] LOW

Date Received: 05/30/96

% Moisture: 13.0

Date Analyzed : 06/03/96

GC Column: DB-VRX ID: 0.45 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND UG/KG Q

74-87-3-----	Chloromethane	.57	U
74-83-9-----	Bromomethane	.57	U
124-48-1-----	Chlorodibromomethane	.57	U
75-01-4-----	Vinyl chloride	.57	U
75-00-3-----	Chloroethane	.57	U
110-75-8-----	2-Chloroethyl vinyl ether	.57	U
75-09-2-----	Methylene chloride	.57	U
75-69-4-----	Trichlorofluoromethane	.57	U
75-35-4-----	1,1-Dichloroethene	.57	U
75-34-3-----	1,1-Dichloroethane	.57	U
156-60-5-----	trans-1,2-Dichloroethene	.57	U
67-66-3-----	Chloroform	.57	U
107-06-2-----	1,2-Dichloroethane	.57	U
71-55-6-----	1,1,1-Trichloroethane	.57	U
56-23-5-----	Carbon tetrachloride	.57	U
75-27-4-----	Bromodichloromethane	.57	U
78-87-5-----	1,2-Dichloropropane	.57	U
79-01-6-----	Trichloroethene	.57	U
10061-02-6-----	trans-1,3-Dichloropropene	.57	U
10061-01-5-----	cis-1,3-Dichloropropene	.57	U
79-00-5-----	1,1,2-Trichloroethane	.57	U
75-25-2-----	Bromoform	.57	U
127-18-4-----	Tetrachloroethene	.57	U
108-90-7-----	Chlorobenzene	.57	U
541-73-1-----	1,3-Dichlorobenzene	.57	U
106-46-7-----	1,4-Dichlorobenzene	.57	U
95-50-1-----	1,2-Dichlorobenzene	.57	U
79-34-5-----	1,1,2,2-Tetrachloroethane	.57	U
71-43-2-----	Benzene	.57	U
108-88-3-----	Toluene	.57	U
100-41-4-----	Ethylbenzene	.57	U
108-38-3-----	meta + para-Xylenes	.57	U
95-47-6-----	ortho-Xylene	.57	U

000038

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605202
LRI Sample No: 4

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-2-SS-4-L218

Date Collected: 05/08/96
Date Received: 05/14/96

Matrix: Soil
Percent Moisture: 11.3%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	730	680	ug/kg	05/17/96	SS	05/28/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	280 U	280	ug/kg	05/30/96	VD	05/30/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	4700	1100	ug/kg	05/17/96	SS	05/30/96	MP	1
Cadmium	680 U	680	ug/kg	05/17/96	SS	05/30/96	MP	1
Chromium	2600	2300	ug/kg	05/17/96	SS	05/30/96	MP	1

161 *ms*
8/6/86

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605202

LRI Sample No: 3

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-6-SS1-L218

Date Collected: 05/09/96

Date Received: 05/14/96

Matrix: Soil

Percent Moisture: 13.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	8300	690	ug/kg	05/17/96	SS	05/28/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	290 U	290	ug/kg	05/30/96	VD	05/30/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	49000	1200	ug/kg	05/17/96	SS	05/30/96	MP	1
Cadmium	690 U	690	ug/kg	05/17/96	SS	05/30/96	MP	1
Chromium	24000	2300	ug/kg	05/17/96	SS	05/30/96	MP	1

160 *mps*
3/6/86

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605202
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-9-SS-2-L218

Date Collected: 05/09/96
Date Received: 05/14/96

Matrix: Soil
Percent Moisture: 13.8%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1300	700	ug/kg	05/17/96	SS	05/28/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	290 U	290	ug/kg	05/30/96	VD	05/30/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	3000	1200	ug/kg	05/17/96	SS	05/30/96	P	1
Cadmium	700 U	700	ug/kg	05/17/96	SS	05/30/96	P	1
Chromium	2300 U	2300	ug/kg	05/17/96	SS	05/30/96	P	1

159
8/6/86

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605202
 LRI Sample No: 1

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-11-SS-1-L218

Date Collected: 05/10/96
 Date Received: 05/14/96

Matrix: Soil
 Percent Moisture: 15.9%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	8000	710	ug/kg	05/17/96	SS	05/28/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	300 U	300	ug/kg	05/30/96	VD	05/30/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	31000	1200	ug/kg	05/17/96	SS	05/30/96	MP	1
Cadmium	710 U	710	ug/kg	05/17/96	SS	05/30/96	MP	1
Chromium	16000	2400	ug/kg	05/17/96	SS	05/30/96	MP	1

158 *sup*
 8/6/96

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605404
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-16-SS-3-L218

Date Collected: 05/21/96
Date Received: 05/25/96

Matrix: Soil
Percent Moisture: 6.2%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	990	160	ug/kg	06/11/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	270 U	270	ug/kg	06/03/96	VD	06/03/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	6900	270	ug/kg	05/30/96	SS	06/02/96	MP	1
Cadmium	160 U	160	ug/kg	05/30/96	SS	06/02/96	MP	1
Chromium	2200	530	ug/kg	05/30/96	SS	06/02/96	MP	1

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145A/DLLH

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605202

LRI Sample No: 5

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-17-SS1-L218

Date Collected: 05/08/96

Date Received: 05/14/96

Matrix: Soil

Percent Moisture: 21.5%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1800	760	ug/kg	05/17/96	SS	05/28/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	320 U	320	ug/kg	05/30/96	VD	05/30/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	6600	1300	ug/kg	05/17/96	SS	05/30/96	MP	1
Cadmium	760 U	760	ug/kg	05/17/96	SS	05/30/96	MP	1
Chromium	3500	2500	ug/kg	05/17/96	SS	05/30/96	MP	1

162 *ms*
3/6/96

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605281

LRI Sample No: 1

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-18-SS-2-L218

Date Collected: 05/13/96

Date Received: 05/18/96

Matrix: Soil

Percent Moisture: 1.1%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1300	610	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	100 U	100	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	7400	1000	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	610 U	610	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	8000	2000	ug/kg	05/24/96	SS	05/25/96	MP	1

170 mo

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605281

LRI Sample No: 2

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-22-SS-1-L218

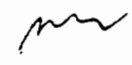
Date Collected: 05/13/96

Date Received: 05/18/96

Matrix: Soil

Percent Moisture: 19.3%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	26000	3000	ug/kg	05/29/96	VD	05/30/96	MH	4
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	120 U	120	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	29000	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	740 U	740	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	8400	2500	ug/kg	05/24/96	SS	05/25/96	MP	1

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METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605281

LRI Sample No: 3

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-25-SS-4-L218

Date Collected: 05/13/96

Date Received: 05/18/96

Matrix: Soil

Percent Moisture: 11.1%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	17000	2700	ug/kg	05/29/96	VD	05/30/96	MH	4
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	110 U	110	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	9300	1100	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	1800	670	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	740000	2200	ug/kg	05/24/96	SS	05/25/96	MP	1

172

m

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605281
LRI Sample No: 4

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-25-SS-19-L218

Date Collected: 05/13/96
Date Received: 05/18/96

Matrix: Soil
Percent Moisture: 2.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1900	610	ug/kg	05/29/96	VD	06/03/96	AMB	
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	100 U	100	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	3300	1000	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	610 U	610	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	4200	2000	ug/kg	05/24/96	SS	05/25/96	MP	1

173 *ms*

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 1

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-26-SS-1-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 11.3%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Metals by ICP by 6010, TCLP</u>								
Chromium	0.10 U	.1	mg/l	06/12/96	SS	06/13/96	MP	1
<u>Lead by Furnace by 7421</u>								
Lead	6900	680	ug/kg	05/29/96	VD	05/30/96	MH	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	110 U	110	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	24000	1100	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	680 U	680	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	66000	2300	ug/kg	05/24/96	SS	05/25/96	MP	1

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 2

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magnetics
 Sample Description: NMB004-SB-26-SS-2-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 8.9%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Metals by ICP by 6010, TCLP</u>								
Chromium	0.10 U	.1	mg/l	06/12/96	SS	06/13/96	MP	1
<u>Lead by Furnace by 7421</u>								
Lead	980	660	ug/kg	05/29/96	VD	05/30/96	MH	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	110 U	110	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	2900	1100	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	660 U	660	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	47000	2200	ug/kg	05/24/96	SS	05/25/96	MP	1

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 3

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-26-SS-3-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 14.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Metals by ICP by 6010, TCLP</u>								
Chromium	0.10 U	.1	mg/l	06/12/96	SS	06/13/96	MP	1
<u>Lead by Furnace by 7421</u>								
Lead	710	700	ug/kg	05/29/96	VD	05/30/96	MH	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	120 U	120	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	4900	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	700 U	700	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	26000	2300	ug/kg	05/24/96	SS	05/25/96	MP	1

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 4

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-26-SS-4-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 14.8%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1600	700	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	290 U	290	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	3800	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	700 U	700	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	7900	2300	ug/kg	05/24/96	SS	05/25/96	MP	1

000033

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 5

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-26-SS-5-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 14.6%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1700	700	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	290 U	290	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	1500	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	700 U	700	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	5500	2300	ug/kg	05/24/96	SS	05/25/96	MP	1

000034

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 6

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magnetics
 Sample Description: NMB004-SB-27-SS-1-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 18.7%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Metals by ICP by 6010, TCLP</u>								
Chromium	0.10 U	.1	mg/l	06/13/96	SS	06/13/96	MP	1
Lead	0.034	.03	mg/l	06/13/96	SS	06/13/96	MP	1
<u>Lead by Furnace by 7421</u>								
Lead	31000	3000	ug/kg	05/29/96	VD	05/30/96	MH	4
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	120 U	120	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	27000	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	2500	740	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	9600	2500	ug/kg	05/24/96	SS	05/25/96	MP	1

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 7

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magnetics
 Sample Description: NMB004-SB-27-SS-2-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 0.6%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1100	600	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	250 U	250	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	7000	1000	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	600 U	600	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	6000	2000	ug/kg	05/24/96	SS	05/25/96	MP	1

000036

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 8

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-27-SS-4-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 14.0%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	2400	700	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	290 U	290	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	3500	1200	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	700 U	700	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	5200	2300	ug/kg	05/24/96	SS	05/25/96	MP	1

000037

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605280
 LRI Sample No: 9

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-27-SS-5-L218

Date Collected: 05/15/96
 Date Received: 05/18/96

Matrix: Soil
 Percent Moisture: 2.8%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1400	620	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	260 U	260	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	6200	1000	ug/kg	05/24/96	SS	05/25/96	MP	1
Cadmium	620 U	620	ug/kg	05/24/96	SS	05/25/96	MP	1
Chromium	4900	2100	ug/kg	05/24/96	SS	05/25/96	MP	1

000038

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605341
 LRI Sample No: 1

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-33-SS-8-L218

Date Collected: 05/21/96
 Date Received: 05/23/96

Matrix: Soil
 Percent Moisture: 3.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	2000	620	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	100 U	100	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	2400	1000	ug/kg	05/24/96	SS	05/25/96	AMB	1
Cadmium	620 U	620	ug/kg	05/24/96	SS	05/25/96	AMB	1
Chromium	3300	2100	ug/kg	05/24/96	SS	05/25/96	AMB	1

mbs
 8/6/96

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METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605341
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-60-SS-1-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Soil
Percent Moisture: 5.9%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	3700	640	ug/kg	05/29/96	VD	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	110 U	110	ug/kg	05/28/96	VD	05/28/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	11000	1100	ug/kg	05/24/96	SS	05/25/96	AMB	1
Cadmium	640 U	640	ug/kg	05/24/96	SS	05/25/96	AMB	1
Chromium	8200	2100	ug/kg	05/24/96	SS	05/25/96	AMB	1

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msz
8/6/98

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605404
LRI Sample No: 1

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-63-SS-1-L218

Date Collected: 05/21/96
Date Received: 05/25/96

Matrix: Soil
Percent Moisture: 7.6%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	5800	490	ug/kg	06/11/96	SS	06/12/96	AMB	3
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	270 U	270	ug/kg	06/03/96	VD	06/03/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	11000	270	ug/kg	05/30/96	SS	06/02/96	MP	1
Cadmium	270	160	ug/kg	05/30/96	SS	06/02/96	MP	1
Chromium	51000	540	ug/kg	05/30/96	SS	06/02/96	MP	1

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METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605404
 LRI Sample No: 4

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-SB-64-SS-2-L218

Date Collected: 05/21/96
 Date Received: 05/25/96

Matrix: Soil
 Percent Moisture: 3.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	910	160	ug/kg	06/11/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	260 U	260	ug/kg	06/03/96	VD	06/03/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	3600	260	ug/kg	05/30/96	SS	06/02/96	MP	1
Cadmium	160 U	160	ug/kg	05/30/96	SS	06/02/96	MP	1
Chromium	13000	520	ug/kg	05/30/96	SS	06/02/96	MP	1

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147A/datt

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605443
LRI Sample No: 1

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB-004 SB-65-SS-3

Date Collected: 05/23/96
Date Received: 05/30/96

Matrix: Soil
Percent Moisture: 13.0%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1500	170	ug/kg	06/06/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	110U	110	ug/kg	06/06/96	VD	06/07/96	AMB	1
<u>Metals by ICP by 6010</u>								
Barium	2000	290	ug/kg	06/06/96	SS	06/07/96	MP	1
Cadmium	170U	170	ug/kg	06/06/96	SS	06/07/96	MP	1
Chromium	2900	570	ug/kg	06/06/96	SS	06/07/96	MP	1

000194

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605404

LRI Sample No: 3

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-74-SS2-L218

Date Collected: 05/21/96

Date Received: 05/25/96

Matrix: Soil

Percent Moisture: 8.2%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	1300	160	ug/kg	06/11/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	270 U	270	ug/kg	06/03/96	VD	06/03/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	10000	270	ug/kg	05/30/96	SS	06/02/96	MP	1
Cadmium	160 U	160	ug/kg	05/30/96	SS	06/02/96	MP	1
Chromium	6600	540	ug/kg	05/30/96	SS	06/02/96	MP	1

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146A/DHH

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605404
LRI Sample No: 5

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magnetics
Sample Description: NMB004-SB-78-SS-1-L218

Date Collected: 05/21/96
Date Received: 05/25/96

Matrix: Soil
Percent Moisture: 7.6%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	2900	160	ug/kg	06/11/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	270 U	270	ug/kg	06/03/96	VD	06/03/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	9100	270	ug/kg	05/30/96	SS	06/02/96	MP	1
Cadmium	160 U	160	ug/kg	05/30/96	SS	06/02/96	MP	1
Chromium	4700	540	ug/kg	05/30/96	SS	06/02/96	MP	1

148

148A/DHH

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605443
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB-004-SB-83-SS-4

Date Collected: 05/23/96
Date Received: 05/30/96

Matrix: Soil
Percent Moisture: 15.4%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	780	180	ug/kg	06/06/96	SS	06/12/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	120 U	120	ug/kg	06/06/96	VD	06/07/96	AMB	1
<u>Metals by ICP by 6010</u>								
Barium	1300	300	ug/kg	06/06/96	SS	06/07/96	MP	1
Cadmium	180 U	180	ug/kg	06/06/96	SS	06/07/96	MP	1
Chromium	4800	590	ug/kg	06/06/96	SS	06/07/96	MP	1

000105

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605443
 LRI Sample No. 3

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB-004-SB-84-SS-1

Date Collected: 05/23/96
 Date Received: 05/30/96

Matrix: Soil
 Percent Moisture: 13.5%

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	4300	350	ug/kg	06/06/96	SS	06/12/96	AMB	2
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	120 U	120	ug/kg	06/06/96	VD	06/07/96	AMB	1
<u>Metals by ICP by 6010</u>								
Barium	24000	290	ug/kg	06/06/96	SS	06/07/96	MP	1
Cadmium	170 U	170	ug/kg	06/06/96	SS	06/07/96	MP	1
Chromium	5000	580	ug/kg	06/06/96	SS	06/07/96	MP	1

000106

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 1

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-3-SS-2-L218

Date Collected: 05/13/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 3.6%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	8000	1000	mg/kg			06/03/96	JM	

000015

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T605341
LRI Sample No: 1

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-33-SS-8-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Soil
Percent Moisture: 3.4%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	210 U	210	mg/kg			05/24/96	JM	

343 mms
8/6/96

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T605341
LRI Sample No: 2

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-60-SS-1-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Soil
Percent Moisture: 5.9%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	1200	210	mg/kg			05/24/96	JM	

8/6/96 344
msa

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 2

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-66-SS-1-L218

Date Collected: 05/22/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 9.4%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	3600	1100	mg/kg			06/03/96	JM	

000016

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 3

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-68-SS-2-L218

Date Collected: 05/22/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 2.1%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	610	200	mg/kg			06/03/96	JM	

000017

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 4

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-80-SS-1-L218

Date Collected: 05/22/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 5.7%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	1400	210	mg/kg			06/03/96	JM	

000018

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 6

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-80-SS-3-L218

Date Collected: 05/23/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 4.8%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	210 U	210	mg/kg			06/03/96	JM	

000020

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T606011
LRI Sample No: 5

Customer: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004SB-82-SS-1-L218

Date Collected: 05/23/96
Date Received: 06/01/96

Matrix: Soil
Percent Moisture: 1.3%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Total Organic Carbon (TOC) by 9060</u>								
Carbon, Total Organic (TOC)	360	200	mg/kg			06/03/96	JM	

000019

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SA 25-L218

Signal 2

Lab Name: LRI Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: T605340-1

Sample wt/vol: 0.2 (g/mL) ML Lab File ID: C2287.D

Level: (low/med) _____ Date Received: 5/23/96

% Moisture: not dec. 100 Date Analyzed: 6/1/96

Column 0 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	13		U
75-01-04	Vinyl Chloride	13		U
74-83-9	Bromomethane	13		U
75-00-3	Chloroethane	13		U
95-69-4	Trichlorofluoromethane	13		U
75-35-4	1,1-Dichloroethene	13		U
75-09-2	Methylene Chloride	55		
156-60-5	trans-1,2-Dichloroethene	13		U
75-34-3	1,1-Dichloroethane	13		U
67-66-3	Chloroform	13		U
71-55-6	1,1,1-Trichloroethane	13		U
56-23-5	Carbon tetrachloride	13		U
107-06-2	1,2-Dichloroethane	13		U
79-01-6	Trichloroethene	13		U
78-87-5	1,2-Dichloropropane	13		U
75-27-4	Bromodichloromethane	13		U
100-75-8	2-Chloroethyl vinyl ether	13		U
10061-01-5	cis-1,3-Dichloropropene	13		U
10061-02-6	trans-1,3-Dichloropropene	13		U
79-00-5	1,1,2-Trichloroethane	13		U
127-18-4	Tetrachloroethene	1000		
124-48-1	Dibromochloromethane	13		U
75-25-2	Bromoform	13		U
79-34-5	1,1,2,2-Tetrachloroethane	13		U
108-90-7	Chlorobenzene	13		U
541-73-1	1,3-Dichlorobenzene	13		U
106-46-7	1,4-Dichlorobenzene	13		U
95-50-1	1,2-Dichlorobenzene	13		U

SAMPLE NO.

Signal 1

ib Name: LRI

Contract:

SR 25-L218

Project No.

Site:

Location:

Group:

atrix: (soil/water)

WATER

Lab Sample ID: T605340-1

Sample wt/vol:

0.2

(g/mL)

ML

Lab File ID: D2287.D

vel: (low/med)

Date Received: 5/23/96

% Moisture: not dec.

100

Date Analyzed: 6/1/96

Column RTX-502

ID: 0.53 (mm)

Dilution Factor: 25.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

NMB004-SB29-L1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
NMB004-SB29-L1

Signal 2

Lab Name: LRI Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: T605282-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C2216.D

Level: (low/med) _____ Date Received: 5/18/96

% Moisture: not dec. 100 Date Analyzed: 5/25/96

GC Column 0 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	0.5	U	
75-01-04	Vinyl Chloride	0.5	U	
74-83-9	Bromomethane	0.5	U	
75-00-3	Chloroethane	0.5	U	
95-69-4	Trichlorofluoromethane	0.5	U	
75-35-4	1,1-Dichloroethene	0.5	U	
75-09-2	Methylene Chloride	0.5	U	
156-60-5	trans-1,2-Dichloroethene	0.5	U	
75-34-3	1,1-Dichloroethane	0.5	U	
67-66-3	Chloroform	0.5	U	
71-55-6	1,1,1-Trichloroethane	0.5	U	
56-23-5	Carbon tetrachloride	0.5	U	
107-06-2	1,2-Dichloroethane	0.5	U	
79-01-6	Trichloroethene	0.5	U	
78-87-5	1,2-Dichloropropane	0.5	U	
75-27-4	Bromodichloromethane	0.5	U	
100-75-8	2-Chloroethyl vinyl ether	0.5	U	
10061-01-5	cis-1,3-Dichloropropene	0.5	U	
10061-02-6	trans-1,3-Dichloropropene	0.5	U	
79-00-5	1,1,2-Trichloroethane	0.5	U	
127-18-4	Tetrachloroethene	0.8		
124-48-1	Dibromochloromethane	0.5	U	
75-25-2	Bromoform	0.5	U	
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	
108-90-7	Chlorobenzene	0.5	U	
541-73-1	1,3-Dichlorobenzene	0.5	U	
106-46-7	1,4-Dichlorobenzene	0.5	U	
95-50-1	1,2-Dichlorobenzene	0.5	U	

SAMPLE NO.

53 54-L128

Contract:

Group:

Soil Aliquot Volume: _____ (uL)

ug/L

Q

[illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

54-L128

ab Name: LRI

Contract:

Project No.

Site:

Location:

Group:

Matrix: (soil/water)

WATER

Lab Sample ID: T605340-3

Sample wt/vol:

2.0

(g/mL)

ML

Lab File ID: C2292.D

Level: (low/med)

Date Received: 5/23/96

% Moisture: not dec.

100

Date Analyzed: 6/1/96

C Column

0

ID: 0.53 (mm)

Dilution Factor: 2.5

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

74-87-3	Chloromethane	1.3	U
75-01-04	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
95-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
75-09-2	Methylene Chloride	1.3	U
156-60-5	trans-1,2-Dichloroethene	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
79-01-6	Trichloroethene	110	
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
100-75-8	2-Chloroethyl vinyl ether	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U
127-18-4	Tetrachloroethene	31	
124-48-1	Dibromochloromethane	1.3	U
75-25-2	Bromoform	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U

SAMPLE NO.

Signal 1

63-L128

ab Name: LRI

Contract:

Project No.

Site:

Location:

Group:

[atrix: (soil/water)

WATER

Lab Sample ID: T605340-2

Sample wt/vol:

5.0

(g/mL)

ML

Lab File ID: D2290.D

Level: (low/med)

Date Received: 5/23/96

% Moisture: not dec.

100

Date Analyzed: 6/1/96

C Column RTX-502

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

63-L128

Lab Name: LRI

Contract: _____

Project No. _____

Site: _____

Location: _____

Group: _____

Matrix: (soil/water)

WATER

Lab Sample ID: T605340-2

Sample wt/vol: _____

5.0

(g/mL)

ML

Lab File ID: C2290.D

Level: (low/med) _____

Date Received: 5/23/96

% Moisture: not dec. _____

100

Date Analyzed: 6/1/96

Column _____

0

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____

(uL)

Soil Aliquot Volume: _____

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

74-87-3	Chloromethane	0.5	U
75-01-04	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
95-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	1.9	
75-09-2	Methylene Chloride	0.9	
156-60-5	trans-1,2-Dichloroethene	76	
75-34-3	1,1-Dichloroethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	44	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
100-75-8	2-Chloroethyl vinyl ether	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	42	
124-48-1	Dibromochloromethane	0.5	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U

SAMPLE NO.

SS 65-L218

Contract:

Group:

Lab Sample ID: T605340-4

Lab File ID: D2289.D

Date Received: 5/23/96

Date Analyzed: 6/1/96

Dilution Factor: 5.0

Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L Q

[illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

58 65-L218

Lab Name: LRI Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: T605340-4

Sample wt/vol: 1.0 (g/mL) ML Lab File ID: C2289.D

Level: (low/med) _____ Date Received: 5/23/96

% Moisture: not dec. 100 Date Analyzed: 6/1/96

Column 0 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	2.5		U
75-01-04	Vinyl Chloride	2.5		U
74-83-9	Bromomethane	2.5		U
75-00-3	Chloroethane	2.5		U
95-69-4	Trichlorofluoromethane	2.5		U
75-35-4	1,1-Dichloroethene	2.5		U
75-09-2	Methylene Chloride	2.5		U
156-60-5	trans-1,2-Dichloroethene	2.5		U
75-34-3	1,1-Dichloroethane	2.5		U
67-66-3	Chloroform	2.5		U
71-55-6	1,1,1-Trichloroethane	2.5		U
56-23-5	Carbon tetrachloride	2.5		U
107-06-2	1,2-Dichloroethane	2.5		U
79-01-6	Trichloroethene	2.5		U
78-87-5	1,2-Dichloropropane	2.5		U
75-27-4	Bromodichloromethane	2.5		U
100-75-8	2-Chloroethyl vinyl ether	2.5		U
10061-01-5	cis-1,3-Dichloropropene	2.5		U
10061-02-6	trans-1,3-Dichloropropene	2.5		U
79-00-5	1,1,2-Trichloroethane	2.5		U
127-18-4	Tetrachloroethene	160		
124-48-1	Dibromochloromethane	2.5		U
75-25-2	Bromoform	2.5		U
79-34-5	1,1,2,2-Tetrachloroethane	2.5		U
108-90-7	Chlorobenzene	2.5		U
541-73-1	1,3-Dichlorobenzene	2.5		U
106-46-7	1,4-Dichlorobenzene	2.5		U
95-50-1	1,2-Dichlorobenzene	2.5		U

SAMPLE NO.

Signal 1

MW1-L218

Lab Name: LRI

Contract:

Project No.

Site:

Location:

Group:

Matrix: (soil/water)

WATER

Lab Sample ID: T605444-1

Sample wt/vol:

5.0

(g/mL)

ML

Lab File ID: D2376.D

level: (low/med)

Date Received: 5/30/96

% Moisture: not dec.

100

Date Analyzed: 6/10/96

GC Column RTX-502

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

000056

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

MW1-L218

Lab Name: LRI Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: T605444-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C2376.D

Level: (low/med) _____ Date Received: 5/30/96

% Moisture: not dec. 100 Date Analyzed: 6/10/96

Column 0 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	0.5		U
75-01-04	Vinyl Chloride	0.5		U
74-83-9	Bromomethane	0.5		U
75-00-3	Chloroethane	0.5		U
95-69-4	Trichlorofluoromethane	0.5		U
75-35-4	1,1-Dichloroethene	0.5		U
75-09-2	Methylene Chloride	0.5		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon tetrachloride	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
79-01-6	Trichloroethene	0.7		
78-87-5	1,2-Dichloropropane	0.5		U
75-27-4	Bromodichloromethane	0.5		U
100-75-8	2-Chloroethyl vinyl ether	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
127-18-4	Tetrachloroethene	3.1		
124-48-1	Dibromochloromethane	0.5		U
75-25-2	Bromoform	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-90-7	Chlorobenzene	0.5		U
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.5		U
95-50-1	1,2-Dichlorobenzene	0.5		U

000057

SAMPLE NO.

Signal 1

MW2-L218

(b) Name: LRI

Contract:

Project No.

Site:

Location:

Group:

atrix: (soil/water)

WATER

Lab Sample ID: T605444-2

Sample wt/vol:

0.5

(g/mL)

ML

Lab File ID: D2353.D.

vel: (low/med)

Date Received: 5/30/96

% Moisture: not dec.

100

Date Analyzed: 6/6/96

Column RTX-502

ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

MW2-L218

ab Name: LRI

Contract:

Project No.

Site:

Location:

Group:

Matrix: (soil/water)

WATER

Lab Sample ID: T605444-2

Sample wt/vol:

0.5

(g/mL)

ML

Lab File ID: C2353.D

Level: (low/med)

Date Received: 5/30/96

% Moisture: not dec.

100

Date Analyzed: 6/6/96

C Column

0

ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

74-87-3	Chloromethane	5	U
75-01-04	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
95-69-4	Trichlorofluoromethane	12	
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	17	
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	330	
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
100-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	660	
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-90-7	Chlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

SAMPLE NO.

MW3-L218

Contract:

Site:

Location:

Group:

WATER

Lab Sample ID: T605444-3

5.0

(g/mL)

ML

Lab File ID: D2354.D

Date Received: 5/30/96

100

Date Analyzed: 6/6/96

ID: 0.53 (mm)

Dilution Factor: 1.0

(uL)

Soil Aliquot Volume:

(uL)

(ug/L or ug/Kg)

ug/L

Q

000064

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Signal 2

MW3-L218

Lab Name: LRI Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: T605444-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C2354.D

Level: (low/med) _____ Date Received: 5/30/96

% Moisture: not dec. 100 Date Analyzed: 6/6/96

Column 0 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	0.5		U
75-01-04	Vinyl Chloride	0.5		U
74-83-9	Bromomethane	0.5		U
75-00-3	Chloroethane	0.5		U
95-69-4	Trichlorofluoromethane	1		
75-35-4	1,1-Dichloroethene	0.5		U
75-09-2	Methylene Chloride	1.4		
156-60-5	trans-1,2-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	1.8		
67-66-3	Chloroform	1.7		
71-55-6	1,1,1-Trichloroethane	2.2		
56-23-5	Carbon tetrachloride	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
79-01-6	Trichloroethene	15		
78-87-5	1,2-Dichloropropane	0.5		U
75-27-4	Bromodichloromethane	0.5		U
100-75-8	2-Chloroethyl vinyl ether	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
127-18-4	Tetrachloroethene	42		
124-48-1	Dibromochloromethane	0.5		U
75-25-2	Bromoform	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-90-7	Chlorobenzene	0.5		U
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.5		U
95-50-1	1,2-Dichlorobenzene	0.5		U

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605340
LRI Sample No: 1

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-25-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	320	30	ug/L	05/30/96	SS	06/03/96	AMB	10
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	6.1	0.20	ug/L	06/03/96	VD	06/04/96	MH	1
<u>Metals by ICP by 6010</u>								
Barium	340	5	ug/L	05/30/96	SS	06/01/96	JKS	1
Cadmium	32	3	ug/L	05/30/96	SS	06/01/96	JKS	1
Chromium	5200	10	ug/L	05/30/96	SS	06/01/96	JKS	1

000104

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605282
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMD004-SB29-L197

Date Collected: 05/16/96
Date Received: 05/18/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	56	3.0	ug/L	05/30/96	SS	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.31	0.20	ug/L	06/03/96	AMB	06/04/96	MH	1
<u>Metals by ICP by 6010</u>								
Barium	300	5	ug/L	05/30/96	SS	06/05/96	MP	1
Cadmium	6.1	3	ug/L	05/30/96	SS	06/05/96	MP	1
Chromium	3200	10	ug/L	05/30/96	SS	06/05/96	MP	1

000092

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605340
LRI Sample No: 3

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-54-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	51	3.0	ug/L	05/30/96	SS	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.34	0.20	ug/L	06/03/96	VD	06/04/96	MH	1
<u>Metals by ICP by 6010</u>								
Barium	370	5	ug/L	05/30/96	SS	06/01/96	MP	1
Cadmium	3.0 U	3	ug/L	05/30/96	SS	06/01/96	MP	1
Chromium	1000	10	ug/L	05/30/96	SS	06/01/96	MP	1

000106

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New Jersey

LRI Order No: T605340

LRI Sample No: 2

Client: Land Tech Remedial NY

Location: NY

Project: IMC-Magneitics

Sample Description: NMB004-SB-63-L218

Date Collected: 05/21/96

Date Received: 05/23/96

Matrix: Water

Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	18	3.0	ug/L	05/30/96	SS	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.33	0.20	ug/L	06/03/96	VD	06/04/96	MH	1
<u>Metals by ICP by 6010</u>								
Barium	130	5	ug/L	05/30/96	SS	06/01/96	JKS	1
Cadmium	3.0U	3	ug/L	05/30/96	SS	06/01/96	JKS	1
Chromium	710	10	ug/L	05/30/96	SS	06/01/96	JKS	1

000105

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605340
LRI Sample No: 4

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-SB-65-L218

Date Collected: 05/21/96
Date Received: 05/23/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	66	3.0	ug/L	05/30/96	SS	06/03/96	AMB	1
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.88	0.20	ug/L	06/03/96	VD	06/04/96	MH	1
<u>Metals by ICP by 6010</u>								
Barium	180	5	ug/L	05/30/96	SS	06/01/96	MP	1
Cadmium	6.7	3	ug/L	05/30/96	SS	06/01/96	MP	1
Chromium	1700	10	ug/L	05/30/96	SS	06/01/96	MP	1

000107

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605444
LRI Sample No: 1

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-MW1-L218

Date Collected: 05/28/96
Date Received: 05/30/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	3.0 U	3.0	ug/L	06/07/96	SS	06/10/96	AMB	
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.20 U	0.20	ug/L	06/12/96	VD	06/12/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	54	5	ug/L	06/07/96	SS	06/07/96	MP	1
Cadmium	3.0 U	3	ug/L	06/07/96	SS	06/07/96	MP	1
Chromium	10 U	10	ug/L	06/07/96	SS	06/07/96	MP	1

000105

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T605444
LRI Sample No: 2

Client: Land Tech Remedial NY
Location: NY
Project: IMC-Magneitics
Sample Description: NMB004-MW2-L218

Date Collected: 05/28/96
Date Received: 05/30/96

Matrix: Water
Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	3.0 U	3.0	ug/L	06/07/96	SS	06/10/96	AMB	
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.20 U	0.20	ug/L	06/12/96	VD	06/12/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	79	5	ug/L	06/07/96	SS	06/07/96	MP	1
Cadmium	3.0 U	3	ug/L	06/07/96	SS	06/07/96	MP	1
Chromium	10 U	10	ug/L	06/07/96	SS	06/07/96	MP	1

000106

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
 Division: New Jersey
 LRI Order No: T605444
 LRI Sample No: 3

Client: Land Tech Remedial NY
 Location: NY
 Project: IMC-Magneitics
 Sample Description: NMB004-MW3-L218

Date Collected: 05/28/96
 Date Received: 05/30/96

Matrix: Water
 Percent Moisture: N/A

Parameter	Result	QL	Units	Started Date	By	Completed Date	By	Dilution
<u>Lead by Furnace by 7421</u>								
Lead	3.0 U	3.0	ug/L	06/07/96	SS	06/10/96	AMB	
<u>Mercury by Cold Vapor by 7470</u>								
Mercury	0.20 U	0.20	ug/L	06/12/96	VD	06/12/96	VD	1
<u>Metals by ICP by 6010</u>								
Barium	47	5	ug/L	06/07/96	SS	06/07/96	MP	1
Cadmium	3.0 U	3	ug/L	06/07/96	SS	06/07/96	MP	1
Chromium	32	10	ug/L	06/07/96	SS	06/07/96	MP	1

000107

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

CASE NARRATIVE

Project

IMC Magnetics
570 Main Street
Westbury, NY

Handler: Tim Douthit

Custody Document E6690

Print Date: 07/29/96

NIOSH 1003:

Samples also contain Trichloroethene
(not a NIOSH 1003 compound)

Approximate levels: #1 14 mg/m³
#2 31 mg/m³
#3 65 mg/m³

Reviewed by: *Reggie Long* ✓

Post-It® Fax Note	7671	Date	7/29	# of pages	7
To	Tim Douthit	From	Mausen		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #		Fax #			

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 - Fax: 516-249-8344 - Phone: 516-249-1456

ANALYSIS REPORT - AIR ANALYSIS/NIOSH 1003

07/29/96

Project

IMC Magnetix
570 Main Street
Westbury, NY
Manager: Tim Douthit

Custody Document E6690

Received: 07/15/96 5:30 PM
Sampled by: Tim Douthit
Job Number:

Sample 1

Custody: E6690
Collected: 07/15/96
Location: SVE-1 Shallow
Remarks:

Type: Grab
Matrix: Air

Analysis Information

Analyzed: 07/23/96
Remarks: See Case Narrative

ANALYTE	CONCENTRATION	DIL FAC	MDL
Benzyl Chloride	<0.11 mg/M3	1.0	0.11 mg/M3
Bromoform	<0.26 mg/M3	1.0	0.26 mg/M3
Carbon Tetrachloride	<0.16 mg/M3	1.0	0.16 mg/M3
Chlorobenzene	<0.07 mg/M3	1.0	0.07 mg/M3
Chlorobromomethane	5.42 mg/M3	1.0	0.21 mg/M3
Chloroform	<0.30 mg/M3	1.0	0.30 mg/M3
Hexachloroethane	<0.30 mg/M3	1.0	0.30 mg/M3
Tetrachloroethylene	3330 mg/M3	1.0	0.17 mg/M3
1,1 Dichloroethane	<0.30 mg/M3	1.0	0.30 mg/M3
1,1,1 Trichloroethane	12.6 mg/M3	1.0	0.17 mg/M3
1,2 Dichlorobenzene	<0.07 mg/M3	1.0	0.07 mg/M3
1,2 Dichloroethane	<0.05 mg/M3	1.0	0.05 mg/M3
1,2 Dichloroethene	<0.15 mg/M3	1.0	0.15 mg/M3
1,4 Dichlorobenzene	<0.05 mg/M3	1.0	0.05 mg/M3
1,1,2 Trichloroethane	<0.12 mg/M3	1.0	0.12 mg/M3
1,2,3 Trichloropropane	<0.24 mg/M3	1.0	0.24 mg/M3
Volume	1.79 Liters		
Flow Rate	40 CFM		

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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07/30/96 TUE 22:08 FAX 516 694 4075
07/29/96 11:25

LAND TECH REMEDIAL

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Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - AIR ANALYSIS/NIOSH 1003

07/29/96

ProjectIMC Magnetics
570 Main Street
Westbury, NY
Manager: Tim Douthit**Custody Document E6690**Received: 07/15/96 5:30 PM
Sampled by: Tim Douthit
Job Number:**Sample 2**Custody: E6690
Collected: 07/15/96
Location: SVE-1 Intermediate
Remarks:Type: Grab
Matrix: Air**Analysis Information**Analyzed: 07/23/96
Remarks: See Case Narrative

ANALYTE	CONCENTRATION	DIL	FAC	MDL
Benzyl Chloride	<0.11 mg/M3	1.0		0.11 mg/M3
Bromoform	<0.26 mg/M3	1.0		0.26 mg/M3
Carbon Tetrachloride	<0.16 mg/M3	1.0		0.16 mg/M3
Chlorobenzene	<0.07 mg/M3	1.0		0.07 mg/M3
Chlorobromomethane	4.82 mg/M3	1.0		0.21 mg/M3
Chloroform	<0.30 mg/M3	1.0		0.30 mg/M3
Hexachloroethane	<0.30 mg/M3	1.0		0.30 mg/M3
Tetrachloroethylene	4060 mg/M3	1.0		0.17 mg/M3
1,1 Dichloroethane	<0.30 mg/M3	1.0		0.30 mg/M3
1,1,1 Trichloroethane	25.4 mg/M3	1.0		0.17 mg/M3
1,2 Dichlorobenzene	<0.07 mg/M3	1.0		0.07 mg/M3
1,2 Dichloroethane	<0.05 mg/M3	1.0		0.05 mg/M3
1,2 Dichloroethene	<0.15 mg/M3	1.0		0.15 mg/M3
1,4 Dichlorobenzene	<0.05 mg/M3	1.0		0.05 mg/M3
1,1,2 Trichloroethane	<0.12 mg/M3	1.0		0.12 mg/M3
1,2,3 Trichloropropane	<0.24 mg/M3	1.0		0.24 mg/M3
Volume	1.89 Liters			
Flow Rate	40 CPM			

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected, B=blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit.
Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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ANALYSIS REPORT - AIR ANALYSIS/NIOSH 1003

07/29/96

Project

IMC Magnetics
570 Main Street
Westbury, NY
Manager: Tim Douthit

Custody Document E6690

Received: 07/15/96 5:30 PM
Sampled by: Tim Douthit
Job Number:

Sample 3

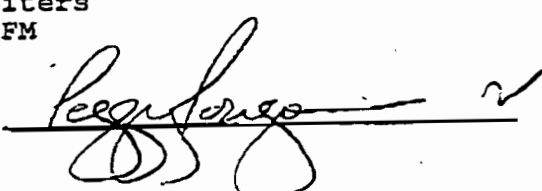
Custody: E6690
Collected: 07/15/96
Location: SVE-1 Deep
Remarks:

Type: Grab
Matrix: Air

Analysis Information

Analyzed: 07/23/96
Remarks: See Case Narrative

ANALYTE	CONCENTRATION	DIL FAC	MDL
Benzyl Chloride	<0.11 mg/M3	1.0	0.11 mg/M3
Bromoform	<0.26 mg/M3	1.0	0.26 mg/M3
Carbon Tetrachloride	<0.16 mg/M3	1.0	0.16 mg/M3
Chlorobenzene	<0.07 mg/M3	1.0	0.07 mg/M3
Chlorobromomethane	6.93 mg/M3	1.0	0.21 mg/M3
Chloroform	<0.30 mg/M3	1.0	0.30 mg/M3
Hexachloroethane	<0.30 mg/M3	1.0	0.30 mg/M3
Tetrachloroethylene	3550 mg/M3	1.0	0.17 mg/M3
1,1 Dichloroethane	<0.30 mg/M3	1.0	0.30 mg/M3
1,1,1 Trichloroethane	51.3 mg/M3	1.0	0.17 mg/M3
1,2 Dichlorobenzene	<0.07 mg/M3	1.0	0.07 mg/M3
1,2 Dichloroethane	<0.05 mg/M3	1.0	0.05 mg/M3
1,2 Dichloroethene	<0.15 mg/M3	1.0	0.15 mg/M3
1,4 Dichlorobenzene	<0.05 mg/M3	1.0	0.05 mg/M3
1,1,2 Trichloroethane	<0.12 mg/M3	1.0	0.12 mg/M3
1,2,3 Trichloropropane	<0.24 mg/M3	1.0	0.24 mg/M3
Volume	2.42 Liters		
Flow Rate	40 CFM		

Reviewed by: 

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

07/29/96 11:27

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005

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-6344 · Phone: 516-249-1456

ANALYSIS REPORT - Air 602 - NIOSH 1501/1003

07/29/96

Project

IMC Magnetics

570 Main Street

Westbury, NY

Manager: Tim Douthit

Custody Document E6690

Received: 07/15/96 5:30 PM

Sampled by: Tim Douthit

Job Number:

Sample 1

Custody: E6690

Collected: 07/15/96

Location: SVE-1 Shallow

Remarks:

Type: Grab

Matrix: Air

Analysis Information

Analyzed: 07/23/96

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>Dilution</u>	<u>MDL</u>	<u>Units</u>
Benzene	<0.07	mg/M3	1	0.07	mg/M3
Toluene	0.11	mg/M3	1	0.05	mg/M3
Ethylbenzene	<0.04	mg/M3	1	0.04	mg/M3
Chlorobenzene	<0.03	mg/M3	1	0.03	mg/M3
o-Xylene	<0.08	mg/M3	1	0.08	mg/M3
m,p-Xylene	<0.05	mg/M3	1	0.05	mg/M3
1,3-Dichlorobenzene	<0.08	mg/M3	1	0.08	mg/M3
1,4-Dichlorobenzene	<0.07	mg/M3	1	0.07	mg/M3
1,2-Dichlorobenzene	<0.11	mg/M3	1	0.11	mg/M3
Volume	1.79	Liter	1		Liter
Flow Rate	40	CFM	1		CFM

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit.
Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

07/29/96 11:28

LAND TECH REMEDI

006

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Air 602 - NIOSH 1501/1003

07/29/96

Project

IMC Magnetix
570 Main Street
Westbury, NY
Manager: Tim Douthit

Custody Document E6690

Received: 07/15/96 5:30 PM
Sampled by: Tim Douthit
Job Number:

Sample 2

Custody: E6690
Collected: 07/15/96
Location: SVE-1 Intermediate
Remarks:

Type: Grab
Matrix: Air

Analysis Information

Analyzed: 07/23/96
Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>Dilution</u>	<u>MDL</u>	<u>Units</u>
Benzene	<0.07	mg/M3	1	0.07	mg/M3
Toluene	0.56	mg/M3	1	0.05	mg/M3
Ethylbenzene	<0.04	mg/M3	1	0.04	mg/M3
Chlorobenzene	<0.03	mg/M3	1	0.03	mg/M3
o-Xylene	<0.08	mg/M3	1	0.08	mg/M3
m,p-Xylene	<0.05	mg/M3	1	0.05	mg/M3
1,3-Dichlorobenzene	<0.08	mg/M3	1	0.08	mg/M3
1,4-Dichlorobenzene	<0.07	mg/M3	1	0.07	mg/M3
1,2-Dichlorobenzene	<0.11	mg/M3	1	0.11	mg/M3
Volume	1.89	Liter	1		Liter
Flow Rate	4.0	CFM	1		CFM

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit.
Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

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Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Air 602 - NIOSH 1501/1003

07/29/96

ProjectIMC Magnetics
570 Main Street
Westbury, NY
Manager: Tim Douthit**Custody Document E6690**Received: 07/15/96 5:30 PM
Sampled by: Tim Douthit
Job Number:**Sample 3**Custody: E6690
Collected: 07/15/96
Location: SVE-1 Deep
Remarks:Type: Grab
Matrix: Air**Analysis Information**Analyzed: 07/23/96
Remarks:**Analyte****Concentration****Units****Dilution****MDL****Units**

Benzene	<0.07	mg/M3	1	0.07	mg/M3
Toluene	0.78	mg/M3	1	0.05	mg/M3
Ethylbenzene	<0.04	mg/M3	1	0.04	mg/M3
Chlorobenzene	<0.03	mg/M3	1	0.03	mg/M3
o-Xylene	<0.08	mg/M3	1	0.08	mg/M3
m,p-Xylene	<0.05	mg/M3	1	0.05	mg/M3
1,3-Dichlorobenzene	<0.08	mg/M3	1	0.08	mg/M3
1,4-Dichlorobenzene	<0.07	mg/M3	1	0.07	mg/M3
1,2-Dichlorobenzene	<0.11	mg/M3	1	0.11	mg/M3
Volume	2.42	Liter	1		Liter
Flow Rate	40	CFM	1		CFM

Reviewed by: 

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed; MDL=Method Detection Limit; nd=Not Determined; E=Quantitated Above Calibration; IDL=Instrument Detection Limit. Soil sample based on dry weight basis; Air MDLs based on 1 L of sample. ELAP Cert #10969.

5

BILLING INFORMATION

CUSTOMER: Land Tech Remedial
ADDRESS: 31 Dubon Ct
Farmingdale, NY 11735
TELEPHONE: 516-694-4040
FAX: 516-694-4045

PROJECT: IMC / Analytics
PROJECT LOCATION: Westbury State: NP
PROJECT MANAGER: Tim Doluthit
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
NAME: Chris Dade
TELEPHONE: Pager - 516-841-7782
FAX: 516-694-4075

BILL TO: Carly Tech Kimecia
ADDRESS: 31 Dubon Ct,
Farmingdale, NY 11735
ATTENTION: Tim Douthit
TELEPHONE: 516-694-4640
PO #:

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	ANALYSIS				PRESERVATIVES						
				COMPOSITE	GRAB			8010	BOD ₅	500-Hg-CL	TOT	H2SO4	HCL	HNO3	NAOH	NON-PRES		
(1)	NMB001-SB-33-SS-8-LZ-B	5/21/96	09:20		✓	Oil	1	X	X	X	X							X
(2)	NMB004-SB-WO-SS-1-LZ-B	5/21/96	09:55		✓	"	1	X	X	X	X							X

TURNAROUND (INDICATE IN CALENDAR DAYS):

NAME OF LAB PERSONNEL CONFIRMING: Doreen Heavens

DEI VERBABLES (CIRCI E ONE): DATA	DATA/QC	RED/DELIV	NJ/CLP I	NJ/CLP II

☒ N/REG ☐ NY/ASP ☒ CLP ☐ OTHER

SAMPLE / AFFIDAVIT:

RECEIVED / ASSINAT

RECEIVED INFORMATION
BEING DISCLOSED TO AFFILIATES

RECEIVED / AFFILIATION

RECEIVED / ACCEPTED / BELINGUISTIC / AFFILIATION

RECEIVED / AFFILIATION

DELIV. PKG.

٧

NJ/CLP II

OTHER

DATE: 5/27/96

TIME: 08:15

DATE: 8/12/2012

TIME:

DATE: _____

TIME:

☐ RETURN TO CLIENT FOR DISPOSAL

KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)

☐ YES ☒ NO (IF YES EXPLAIN IN UNDER COMMENTS)

UNITES KINGDOM (J) LES EXPANIMENT COMMISSIONS OF BOTTLES AND COOLERS AT RECEIPT:

LAB USE CONDITIONS OF BOTTLERS AND COOLEX AT RECEIPT: ☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT COMPLIANT, EXPLAIN UNDER COMMENTS)

COMMENTS

[illegible][illegible]

Handwritten: "I am a student"

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

BILLING INFORMATION

CUSTOMER: LAND TECH MEMEDAL

ADDRESS: 31 DUKOW CT
FARMINGDALE NY
11735

TELEPHONE: 516 694 4040

FAX: 516 694 4075

PROJECT: UIC MAGNETICS
PROJECT LOCATION: WESTBURT STATE, NY
PROJECT MANAGER: TIM DOUTHET
NAME: CHARIS POORE
TELEPHONE: PACER 516 891 7782
FAX: 516 694 4075

BILL TO: LAND TECH PHARMEDICAL

ADDRESS: 31 DUBON CT
FARMINGDALE NY 11737

ATTENTION: TIM DOUGHERT

TELEPHONE: 516 694 4040

PO #:

[illegible]

TURNAROUND ~~INDICATE~~ IN CALENDAR DAYS): _____ FAX _____ HARD COPY _____ DELIV. PKG. ☒

NAME OF LAB PERSONNEL CONFIRMING: Dorothy Heaven's

DELIVERABLES	CIRCLE ONE: DATA	DATA/QC	RED/DELIV	NJ/CLP I	NJ/CLP II
1. Project Overview					
2. Data Collection					
3. Data Analysis					
4. Data Reporting					
5. Data Archiving					
6. Data Security					
7. Data Access					
8. Data Maintenance					
9. Data Backup					
10. Data Restoration					
11. Data Archiving					
12. Data Security					
13. Data Access					
14. Data Maintenance					
15. Data Backup					
16. Data Restoration					
17. Data Archiving					
18. Data Security					
19. Data Access					
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37. Data Access					
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39. Data Backup					
40. Data Restoration					
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42. Data Security					
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59. Data Archiving					
60. Data Security					
61. Data Access					
62. Data Maintenance					
63. Data Backup					
64. Data Restoration					
65. Data Archiving					
66. Data Security					
67. Data Access					
68. Data Maintenance					
69. Data Backup					
70. Data Restoration					
71. Data Archiving					
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73. Data Access					
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75. Data Backup					
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77. Data Archiving					
78. Data Security					
79. Data Access					
80. Data Maintenance					
81. Data Backup					
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83. Data Archiving					
84. Data Security					
85. Data Access					
86. Data Maintenance					
87. Data Backup					
88. Data Restoration					
89. Data Archiving					
90. Data Security					
91. Data Access					
92. Data Maintenance					
93. Data Backup					
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SAMPLER / APPROPRIATION:

WATERGE WYATT

SE

CURRENT

SAWIFLEEN / ALI HAJIATION;	2013-11-11
RECEIVED / ALI HAJIATION;	2013-11-11

RECEIVED / AFFILIATION

RELINQUISHED/AFFILIATION

RECEIVED / AFFILIATION

RELINQUISHED / AFFILIATION

FAX ☐ HARD COPY ☒ DELIV. PKG. ☐

22 FEB 1964

RED/DELIV	NJ/CLP I	NJ/CLP II
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☒ CIP ☐ OTHER

DATE: 5/10

DATE: 5/10/06
TIME: 12:30 PM

TIME: 1:10

DATE: 5/18/15

TIME: _____

DATE: _____

☐ RETURN TO CLIENT FOR DISPOSAL ☒ LAB DISPOSAL
KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)

☐ YES ☒ NO (IF YES EXPLAIN UNDER COMMENTS)

TIONS OF BOTTLES AND COOLER AT RECEIPT:

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:
☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS

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SEE REVERSE SIDE FOR TERMS AND CONDITIONS

CUSTOMER INFORMATION

CUSTOMER: LandTech Remedial

ADDRESS: 31 Puban Court
Farmingdale, NY
11735

TELEPHONE: 516-694-4040

FAX: 516-694-4075

PROJECT: IMC Magnetics
PROJECT LOCATION: Westbury STATE: NJ
PROJECT MANAGER: Tim Douthitt
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
NAME: Chris Powell
TELEPHONE: Pay cc = 891-7732(516)
FAX: 516-694-4075

BILL TO: LandTech Remedial
 ADDRESS: 31 Dubon Court
Farmingdale, NY 11735
 ATTENTION: Tim Donahy
 TELEPHONE: 516-694-4040
 PO #: _____

[illegible]

COOLER TEMP: _____	CUSTODY SEAL #: <u>28097</u>	TURNAROUND (INDICATE IN CALENDAR DAYS): _____	FAX _____	HARD COPY _____	DELIV. PKG. ☒
NAME OF LAB PERSONNEL CONFIRMING: <u>Doreen Heavins</u>					
DELIVERABLES / (CIRCLE ONE): DATA DATA/QC RED/DELIV NJ/CLP I NJ/CLP II					
NJ/REG NY/ASP CLP OTHER					
<u>Wm. Dore / LTR</u>					
SAMPLER / AFFILIATION: _____					
RECEIVED / AFFILIATION: _____					
RELINQUISHED / AFFILIATION: <u>Federal</u>					
RECEIVED / AFFILIATION: <u>AR LA</u>					
RELINQUISHED / AFFILIATION: _____					
RECEIVED / AFFILIATION: _____					

RESIDUAL CHLORINE PRESENT: ☐ YES ☒ NO
☐ RETURN TO CLIENT FOR DISPOSAL ☒ LAB DISPOSAL
 KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:
☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)
 COMMENTS C.S.# 28097, Temp: 16.0°

CHAIN OF CUSTODY

CUSTOMER INFORMATION

CUSTOMER: Land Tech Remedial

ADDRESS: 31 Dubon Court

TELEPHONE: 516-694-4040

FAX: 516-694-4075

PROJECT INFORMATION

PROJECT: IMC Magnetics

PROJECT LOCATION: Westbury State, NY

PROJECT MANAGER: Tim Douthit

IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:

NAME: Chris Poole

TELEPHONE: Pager-516-891-7782

FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial

ADDRESS: 31 Dubon Ct.

ATTENTION: Tim Douthit

TELEPHONE: 516-694-4040

PO #: 101

CHAIN OF CUSTODY

PROJECT INFORMATION

PROJECT: IMC Magnetics

PROJECT LOCATION: Westbury State, NY

PROJECT MANAGER: Tim Douthit

IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:

NAME: Chris Poole

TELEPHONE: Pager-516-891-7782

FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial

ADDRESS: 31 Dubon Ct.

ATTENTION: Tim Douthit

TELEPHONE: 516-694-4040

PO #: 101

CHAIN OF CUSTODY

PROJECT INFORMATION

PROJECT: IMC Magnetics

PROJECT LOCATION: Westbury State, NY

PROJECT MANAGER: Tim Douthit

IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:

NAME: Chris Poole

TELEPHONE: Pager-516-891-7782

FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial

ADDRESS: 31 Dubon Ct.

ATTENTION: Tim Douthit

TELEPHONE: 516-694-4040

PO #: 101

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	PRESERVATIVES	ANALYSIS	H2SO4	HCL	HNO3	NAOH	NON-PRES
				COMPOSITE	GRAB									
1	NMB004-SB-26-55-1-218	5/15	8:45A		✓	Soil	1	✓						X
2	NMB004-SB-26-55-2-218	5/15	8:55A		✓	Soil	1	✓						X
3	NMB004-SB-26-55-3-218	5/15	9:20A		✓	Soil	1	✓						X
4	NMB004-SB-26-55-4-218	5/15	9:50A		✓	Soil	1	✓						X
5	NMB004-SB-26-55-5-218	5/15	11:00A		✓	Soil	1	✓						X
6	NMB004-SB-27-55-1-218	5/15	12:15P		✓	Soil	1	✓						X
7	NMB004-SB-27-55-2-218	5/15	12:30P		✓	Soil	1	✓						X
8	NMB004-SB-27-55-4-218	5/15	2:30P		✓	Soil	1	✓						X
9	NMB004-SB-27-55-5-218	5/15	3:15P		✓	Soil	1	✓						X

TURNAROUND (INDICATE IN CALENDAR DAYS): 5 FAX 516-694-4075 DELIV. PKG. ✓

NAME OF LAB PERSONNEL CONFIRMING: Doreen Heavens

DELIVERABLES / (CIRCLE ONE): DATA DATA/QC RED/DELIV NJ/CLP I NJ/CLP II NJ/CLP II

SAMPLER / AFFILIATION: Chris Poole LTR DATE: 5/17/96

RECEIVED / AFFILIATION: FedEx TIME: 4:30 PM

RELINQUISHED / AFFILIATION: AL LTR DATE: 5/18/96

RECEIVED / AFFILIATION: AL LTR TIME: 11:30

RELINQUISHED / AFFILIATION: AL LTR DATE: 5/18/96

RECEIVED / AFFILIATION: AL LTR TIME: 11:30

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS: The TCLP Metals Extraction is to be archived and only analyzed if instructed to do so by a proper representative of LTR, i.e., Tim Douthit or Chris Poole.

SET REVERSE SIDE FOR TERMS AND CONDITIONS 5/18/96 Temp: 51.3

CUSTOMER INFORMATION

CUSTOMER: Land Tech Remedial
 ADDRESS: 31 Duben Court
Farmingdale, NY 11735
 TELEPHONE: 516-644-4040
 FAX: 516-644-4075

PROJECT INFORMATION

PROJECT: IMC Magnetics
 PROJECT LOCATION: Westbury State, NY
 PROJECT MANAGER: Tim Douthit
 IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
 NAME: Chris Poole
 TELEPHONE: Pager - 516-891-7782
 FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial
 ADDRESS: 31 Duben Ct.
Farmingdale, NY 11735
 ATTENTION: Tim Douthit
 TELEPHONE: 516-644-4040
 PO #:

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	ANALYSIS	PRESERVATIVES				
				COMPOSITE	GRAB				H2SO4	HCL	HNO3	NAOH	NON-PRES
①	NMB004-5B-25-2218	5/21	13:30		✓	1120	2	X					X
②	NMB004-5B-25-2218	5/21	13:30		✓	11	1						X
③	NMB004-5B-63-2218	5/21	13:00		✓	11	3	X					X
④	NMB004-5B-63-2218	5/21	13:00		✓	11	1						X
⑤	NMB004-5B-54-2218	5/21	16:15		✓	11	3	X					X
⑥	NMB004-5B-54-2218	5/21	16:15		✓	11	1						X
⑦	NMB004-5B-65-2218	5/21	16:00		✓	11	3	X					X
⑧	NMB004-5B-65-2218	5/21	16:00		✓	11	1						X
⑨	Trip Blank	5/21	16:00			P.I.	2	X					X

TURNAROUND (INDICATE IN CALENDAR DAYS): _____ FAX _____ HARD COPY _____ DELIV. PKG. _____

NAME OF LAB PERSONNEL CONFIRMING: Chris Poole

DELIVERABLES / (CIRCLE ONE): DATA DATA/QC RED/DELIV NJ/CLP I NJ/CLP II OTHER _____

SAMPLER AFFILIATION: Chris Poole / CLP

RECEIVED AFFILIATION: K. Douthit

RELINQUISHED / AFFILIATION: _____

RECEIVED / AFFILIATION: _____

RELINQUISHED / AFFILIATION: _____

☐ RETURN TO CLIENT FOR DISPOSAL ☒ LAB DISPOSAL

KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)

☐ YES ☒ NO (IF YES EXPLAIN UNDER COMMENTS)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS

DATE: 5/23/96
 TIME: 08:15
 DATE: 5/23/96
 TIME: 9:30

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

BILLING INFORMATION

CUSTOMER: LAND TECH REMEDIAL
ADDRESS: 31 DUBOIS CT

FARMINGTON NY 11735

TELEPHONE: 516 694 4040

FAX: 516 694 4075

PROJECT: IMC MAGNETICS
PROJECT LOCATION: INVESTBURY STATE: NY
PROJECT MANAGER: TIM DOUTT
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
NAME: CHRIS POOLE
TELEPHONE: PAGE 2 516 891 7782
FAX: 516 694 4075

BILL TO: CARDTECH PHARMEDAL
ADDRESS: 31 DOBSON CT
FARMINGDALE NY 11735
ATTENTION: TIM DOWDEIT
TELEPHONE: 516 6914400
PO #:

[illegible]

TURNAROUND (INDICATE IN CALENDAR DAYS): _____ FAX _____ HARD COPY _____ DELIV. PKG. ☒

NAME OF LAB PERSONNEL CONFIRMING: DOREEN HAZEN

DELIVERABLES (CIRCLE ONE): DATA	DATA/QC	RED/DELIV	NJ/CLP I	NJ/CLP II

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SAMPLER / AFFILIATION: Timothy LTR

RECEIVED / AFFILIATION

RELINQUISHED / AFFILIATION

RECEIVED / AFFILIATION

RELINQUISHED / AFFILIATION

DATE: 5/29

TIME: 5:00 PM

DATE: 12/2/2011

TIME: 5/50/96

DATE: _____

☐ RETURN TO CLIENT FOR DISPOSAL ☒ LAB DISPOSAL Temp: 41
KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC) C-54 27913

☐ YES ☒ NO (IF YES EXPLAIN UNDER COMMENTS)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT: 27914

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS_

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

CUSTOMER INFORMATION

CUSTOMER: Land Tech Remedial

ADDRESS: 31 Dubon Court
Farmingdale, NY 11735

TELEPHONE: 694-4040 (516)

FAX: 516-694-4075

PROJECT INFORMATION

PROJECT: IMC Magnetics

PROJECT LOCATION: Westbury State, NY

PROJECT MANAGER: Tim Douthett

IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:

NAME: Chris Boole

TELEPHONE: 516-694-4040

FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial

ADDRESS: 31 Dubon Ct.
Farmingdale, NY 11735

ATTENTION: Tim Douthett

TELEPHONE: 516-694-4040

PO #:

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	ANALYSIS		PRESERVATIVES				
				COMPOSITE	GRAB					H2SO4	HCL	HNO3	NAOH	NON-PRES
①	NMB004-MW-1-L218	5/28/96	14:30		✓	H2O	3	X	X		X			
	NMB004-MW-1-L218	"	14:30		✓	"	1		X					
②	NMB004-MW-2-L218	"	14:15		✓	"	3	X	X		X			
	NMB004-MW-2-L218	"	14:15		✓	"	1		X					
③	NMB004-MW-3-L218	"	15:00		✓	"	3	X	X		X			
	NMB004-MW-3-L218	"	15:00		✓	"	1		X					
④	##### Trip Blank	"	15:00		✓	"	3	X	X		X			

TURNAROUND (INDICATE IN CALENDAR DAYS): 5 FAX 516-694-4075 HARD COPY ☒ DELIV. PKG. ☒

NAME OF LAB PERSONNEL CONFIRMING: Doreen Heavens

DELIVERABLES / (CIRCLE ONE): DATA ☒ DATA/OC ☐ RED/DELIV ☐ NJ/CLP I ☐ NJ/CLP II ☐ OTHER ☐

SAMPLER / AFFILIATION: Chris Boole LTR

RECEIVED / AFFILIATION: Tim Douthett LTR

RELINQUISHED / AFFILIATION: Tim Douthett LTR

RECEIVED / AFFILIATION: FED-X

RELINQUISHED / AFFILIATION: K. Devo & Son LTR

DATE: 5/28/96

TIME: 14:30

DATE: 5/29/96

TIME: 11:00

DATE: 5/29/96

TIME:

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

☐ YES ☒ NO (IF YES EXPLAIN UNDER COMMENTS) 920

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS:

☐ RETURN TO CLIENT FOR DISPOSAL ☒ LAB DISPOSAL
 KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)
 Temp: 6:00
 CS# 37 919

CUSTOMER INFORMATION

CUSTOMER: Land Tech Remediation
ADDRESS: 31 Duban Court
Farmingdale, NY 11735
TELEPHONE: 516-694-4040
FAX: 516-694-4075

PROJECT INFORMATION

PROJECT: IMC Magnetics PROJECT LOCATION: Westbury STATE: NY
PROJECT MANAGER: Tim Douthett
NAME: Chris Pade
TELEPHONE: ~~846~~ (Pager) - (516) 891-7782
FAX: 516-694-4075

BILLING INFORMATION

BILL TO: Land Tech Remedial
ADDRESS: 31 Duben Ct.
Farmingdale, NY 11735
ATTENTION: Tim Douthett
TELEPHONE: 516-694-4040
PO #:

[illegible]

8
TURNAROUND (INDICATE IN CALENDAR DAYS): _____ FAX _____ HARD COPY ☒ DELIV. PKG. _____

NAME OF LAB PERSONNEL CONFIRMING: Doreen Leavans

DELIVERABLES / CIRCULO ONE: DATA	RED/DELIV	NJ/CLP I	NJ/CLP II
----------------------------------	-----------	----------	-----------

☒ N/REGL ✓ NWASP-
☐ OTHER CLP ☐ OTHER

SAMPLER / AFFILIATION: Jim Cook / TR DATE:

RECEIVED / AFFILIATION: FedEx TIME:

RELINQUISHED / AFFILIATION:	DATE:
-----------------------------	-------

RECEIVED / AFFILIATION:

RELINQUISHED / AFFILIATION:	DATE:
-----------------------------	-------

RECEIVED / AFFILIATION:	TIME:
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☐ RETURN TO CLIENT FOR DISPOSAL

KNOWN HAZARD (E) I AMMABLE EXPLOSIVE TOXIC

☐ YES ☐ NO (IF YES EXPLAIN UNDER COMMENTS)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS_

CHAIN OF CUSTODY

CUSTOMER INFORMATION

CUSTOMER: LAND TECH REMEDIAL
 ADDRESS: 31 DUBON CT
 FARMINGDALE NY 11735
 TELEPHONE: 516 694 4040
 FAX: 516 694 4075

PROJECT INFORMATION

PROJECT: MC MAGNETICS
 PROJECT LOCATION: WESTBURY STATE NY
 PROJECT MANAGER: TIM DOUTHITT
 IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
 NAME: CHRIS POOLE
 TELEPHONE: 516 891 7782 (PR)
 FAX: 516 694 4075

BILLING INFORMATION

BILL TO: LAND TECH REMEDIAL
 ADDRESS: 31 DUBON CT
 FARMINGDALE NY 11735
 ATTENTION: TIM DOUTHITT
 TELEPHONE: 516 694 4040
 PO #:

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	T _{OC}	ANALYSIS				PRESERVATIVES			
				COMPOSITE	GRB								H2SO4	HCL	HNO3	NON-PRES
1	NMB004 SB-23-SS-2-1218	5/13	13:30		✓			X								X
2	NMB004 SB-66-SS-1-1218	5/22	8:15		✓			X								✓
3	NMB004 SB-68-SS-2-1218	5/22	9:03		✓			X								X
4	NMB004 SB-80-SS-1-1218	5/23	11:10		✓			X								X
5	NMB004 SB-82-SS-1-1218	5/23	13:05		✓			X								X
6	NMB004 SB-90-SS-3-1218	5/23	11:30		✓			X								X

TURNAROUND INDICATE IN CALENDAR DAYS: 3 FAX HARD COPY DELIV. PKG.

NAME OF LAB PERSONNEL CONFIRMING: DOREEN HEAVENS

DELIVERABLES (CIRCLE ONE): DATA DATA/QC RED/DELIV NJ/CLP I NJ/CLP II

NJ/REGI NY/ASP CLP OTHER

SAMPLER / AFFILIATION: Tim Douthitt LTR

RECEIVED / AFFILIATION: FEB-X

RELINQUISHED / AFFILIATION: AR CA

RECEIVED / AFFILIATION: 6/1/96 10:30

RELINQUISHED / AFFILIATION:

RECEIVED / AFFILIATION:

DATE: DATE: DATE: DATE: DATE: DATE:

TIME: TIME: TIME: TIME: TIME: TIME:

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SEE REVERSE SIDE FOR TERMS AND CONDITIONS

RETURN TO CLIENT FOR DISPOSAL LAB DISPOSAL

KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC) CS #27915

YES NO (IF YES EXPLAIN UNDER COMMENTS)

CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

COMPLIANT NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS: I NEED QUICK AS POSSIBLE

THAT ON TOC

THAT ON TOC

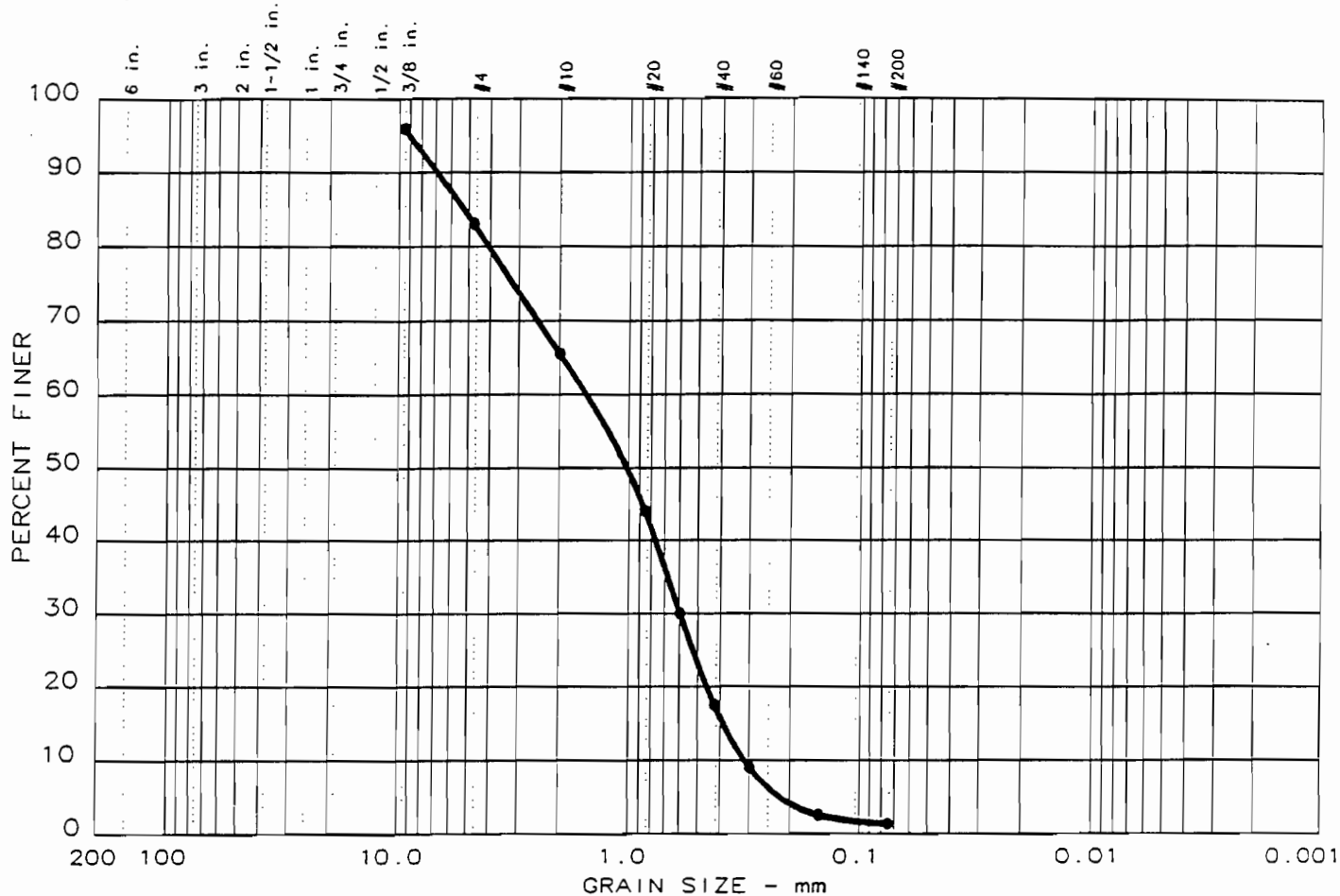
THAT ON TOC

THAT ON TOC

APPENDIX D

Geotechnical Analytical Results

USCS GRAIN SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	16.9	81.7	1.4	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	5.25	1.51	1.02	0.599	0.3868	0.3144	0.75	4.8

MATERIAL DESCRIPTION	USCS	AASHTO
• BROWN POORLY-GRADED SAND, LT GRAVEL, TR FINES.	SP	

Project No.: NMB-004 Project: FORMER IMC MAGNETICS CORP. • Location: 96-471 (IRM INVESTIGATION)	Remarks: SB-88 SS-3 TIME COLLECTED 14:07 MOISTURE CONTENT 2.5%
Date: 5-28-96	
USCS GRAIN SIZE DISTRIBUTION TEST REPORT Hull & Associates, Inc.	
Figure No. _____	

CUSTOMER INFORMATION

CUSTOMER: Landmark Remedial
ADDRESS: 31 Suber Court
Farmington, NJ 0735
TELEPHONE: 516-694-4040
FAX: 516-694-4045

PROJECT INFORMATION

PROJECT: 1116 / agnetics
PROJECT LOCATION: Westbury State, NY
PROJECT MANAGER: Tim Beuthart
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
NAME: Chris Beale
TELEPHONE: 516-694-4040
FAX: 516-694-4075

BILLING INFORMATION

1717
Dublin, OH
Mark Benifis
614-743-8777

[illegible]

TURNAROUND (INDICATE IN CALENDAR DAYS): _____ FAX _____ HARD COPY _____ DELIV. PKG. ☒

KNOWN HAZARD (FLAMMABLE, ~~EXPLOSIVE~~, TOXIC)

☐ YES ☒ NO (IF YES EXPLAIN UNDER COMMENTS)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:
☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)
 COMMENTS _____

RELINQUISHED / AFFILIATION:

RECEIVED / AFFILIATION:

RELINQUISHED / AFFILIATION: _____

RECEIVED / AFFILIATION: *NRX 12/25/44*

APPENDIX E

SVE Pilot Study Test Results

IMC MAGNETICS

SVE Pilot Test Data Summary

Pilot Test Number	Extraction Well Number	Extraction Rate (CFM)	SVE ROI @ 0.10" H ₂ O Vacuum (Feet)	Steady State Air Permeability (Darcys)	Non-Steady State Air Permeability, Closest Well (Darcys)
Test One	SVE-1, Shallow	44	30	178	696
Test Two	SVE-1, Shallow	23	19	154	NM
Test Three	SVE-1, Intermediate	44	40	205	432
Test Four	SVE-1, Intermediate	26	18	202	108
Test Five	SVE-1, Deep	41	40	112	346
Aux Test One	SVE-4, shallow	44	25	148	531
Aux Test Two	SVE-4, Intermediate	41	34	148	1083
Aux Test Three	SVE-4, Intermediate	22	21	175	NM
Aux Test Four	SVE-4, Deep	41	35	98	565

Comments

- 1) If transient, or non-steady state permeabilities are to be used, the data set obtained from the closest monitoring point is most appropriate due to surface short-circuiting effects which increase as a function of distance away from the extraction points. The transient calculations are based on equations from Johnson et al. (1990), which assumes horizontal flow.
- 2) Low ROI from Aux Test One may be due to surficial soil water saturation following a heavy rainfall event the evening prior to the test.

IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-1, Shallow
Flow Rate:	43.6 CFM
Test Name:	SVE Test One
Job No.	11531

Data Log					
Test Start: 7/16/96 8:39:45 AM					
elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
5	0.08	-0.0016	-0.0113	-0.0217	-0.0129
10	0.17	-0.0016	-0.0113	-0.0217	-0.0129
15	0.25	0.0039	-0.0193	-0.0220	0.2001
20	0.33	0.0020	0.0387	-0.0153	1.6100
25	0.42	0.0042	0.0523	-0.0086	1.6228
30	0.50	0.0026	0.0642	0.0004	1.6381
35	0.58	0.0036	0.0728	0.0071	1.6466
40	0.67	0.0036	0.0728	0.0071	1.6466
45	0.75	0.0026	0.0802	0.0142	1.6533
50	0.83	0.0003	0.0834	0.0166	1.6515
55	0.92	0.0003	0.0834	0.0166	1.6515
60	1.00	-0.0016	0.0850	0.0172	1.6588
65	1.08	-0.0028	0.0853	0.0178	1.6576
70	1.17	-0.0028	0.0853	0.0178	1.6576
75	1.25	-0.0043	0.0972	0.0285	1.6722
80	1.33	-0.0043	0.0972	0.0285	1.6722
85	1.42	-0.0066	0.1025	0.0345	1.6729
90	1.50	-0.0133	0.1053	0.0375	1.6704
95	1.58	-0.0190	0.1045	0.0377	1.6716
100	1.67	-0.0237	0.1051	0.0370	1.6698
105	1.75	-0.0212	0.1074	0.0395	1.6814
110	1.83	-0.0212	0.1074	0.0395	1.6814
115	1.92	-0.0205	0.1050	0.0374	1.6741
120	2.00	-0.0118	0.1111	0.0442	1.6722
125	2.08	-0.0124	0.1140	0.0465	1.6802
130	2.17	-0.0119	0.1156	0.0480	1.6771
135	2.25	-0.0125	0.1164	0.0488	1.6783
140	2.33	-0.0125	0.1164	0.0488	1.6783
145	2.42	-0.0179	0.1230	0.0560	1.6881
150	2.50	-0.0202	0.1234	0.0567	1.6875
155	2.58	-0.0202	0.1234	0.0567	1.6875
160	2.67	-0.0254	0.1237	0.0564	1.6875
165	2.75	-0.0240	0.1216	0.0546	1.6832
170	2.83	-0.0241	0.1213	0.0544	1.6777
175	2.92	-0.0249	0.1205	0.0529	1.6820
180	3.00	-0.0251	0.1228	0.0560	1.6863

SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
185	3.08	-0.0254	0.1242	0.0575	1.6832
190	3.17	-0.0254	0.1284	0.0616	1.6918
195	3.25	-0.0252	0.1289	0.0627	1.6887
200	3.33	-0.0251	0.1338	0.0676	1.6899
205	3.42	-0.0252	0.1353	0.0692	1.6948
210	3.50	-0.0252	0.1353	0.0692	1.6948
215	3.58	-0.0254	0.1368	0.0711	1.7003
220	3.67	-0.0254	0.1378	0.0709	1.6936
225	3.75	-0.0254	0.1323	0.0665	1.6826
230	3.83	-0.0254	0.1371	0.0712	1.6960
235	3.92	-0.0254	0.1371	0.0712	1.6960
240	4.00	-0.0254	0.1413	0.0750	1.6960
245	4.08	-0.0254	0.1413	0.0750	1.6960
250	4.17	-0.0252	0.1375	0.0717	1.6924
255	4.25	-0.0249	0.1378	0.0724	1.6936
260	4.33	-0.0249	0.1378	0.0724	1.6936
265	4.42	-0.0251	0.1433	0.0776	1.6967
270	4.50	-0.0252	0.1443	0.0798	1.6991
275	4.58	-0.0252	0.1452	0.0801	1.7028
280	4.67	-0.0252	0.1443	0.0796	1.6954
285	4.75	-0.0251	0.1458	0.0805	1.7009
290	4.83	-0.0249	0.1468	0.0819	1.6985
295	4.92	-0.0252	0.1545	0.0894	1.7131
300	5.00	-0.0252	0.1545	0.0894	1.7131
305	5.08	-0.0252	0.1523	0.0873	1.7052
310	5.17	-0.0251	0.1483	0.0836	1.7028
315	5.25	-0.0251	0.1512	0.0854	1.7101
320	5.33	-0.0254	0.1518	0.0868	1.7021
325	5.42	-0.0252	0.1516	0.0862	1.7089
330	5.50	-0.0252	0.1478	0.0819	1.7083
335	5.58	-0.0252	0.1497	0.0845	1.7052
340	5.67	-0.0251	0.1503	0.0848	1.7052
345	5.75	-0.0251	0.1503	0.0848	1.7052
350	5.83	-0.0252	0.1527	0.0883	1.7070
355	5.92	-0.0252	0.1521	0.0873	1.7064
360	6.00	-0.0252	0.1521	0.0873	1.7064
365	6.08	-0.0254	0.1529	0.0877	1.7076
370	6.17	-0.0252	0.1497	0.0847	1.7040
375	6.25	-0.0254	0.1463	0.0811	1.6973
380	6.33	-0.0252	0.1492	0.0834	1.7058
385	6.42	-0.0251	0.1495	0.0850	1.7040
390	6.50	-0.0251	0.1495	0.0850	1.7040
395	6.58	-0.0251	0.1495	0.0856	1.6979

SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
400	6.67	-0.0251	0.1495	0.0856	1.6979
405	6.75	-0.0252	0.1457	0.0810	1.7040
410	6.83	-0.0142	0.1460	0.0808	1.7009
415	6.92	-0.0083	0.1486	0.0844	1.7070
420	7.00	-0.0122	0.1486	0.0833	1.7034
425	7.08	-0.0122	0.1486	0.0833	1.7034
430	7.17	-0.0113	0.1481	0.0839	1.7009
435	7.25	-0.0130	0.1475	0.0827	1.6997
440	7.33	-0.0173	0.1465	0.0818	1.6906
445	7.42	-0.0240	0.1480	0.0834	1.6991
450	7.50	-0.0249	0.1487	0.0840	1.6997
455	7.58	-0.0252	0.1463	0.0813	1.6973
460	7.67	-0.0254	0.1468	0.0818	1.6979
465	7.75	-0.0252	0.1457	0.0808	1.6979
470	7.83	-0.0252	0.1483	0.0836	1.6930
475	7.92	-0.0255	0.1477	0.0831	1.6960
480	8.00	-0.0249	0.1487	0.0845	1.6967
485	8.08	-0.0254	0.1446	0.0792	1.6918
490	8.17	-0.0254	0.1426	0.0776	1.6930
495	8.25	-0.0028	0.1405	0.0752	1.6918
500	8.33	-0.0028	0.1411	0.0757	1.6924
505	8.42	-0.0028	0.1411	0.0757	1.6924
510	8.50	-0.0251	0.1407	0.0761	1.6942
515	8.58	-0.0251	0.1408	0.0757	1.6875
520	8.67	-0.0251	0.1419	0.0772	1.6954
525	8.75	-0.0252	0.1397	0.0749	1.6887
530	8.83	-0.0252	0.1397	0.0749	1.6887
535	8.92	-0.0254	0.1420	0.0770	1.6899
540	9.00	-0.0252	0.1417	0.0776	1.6960
545	9.08	-0.0248	0.1414	0.0770	1.6906
550	9.17	-0.0254	0.1399	0.0757	1.6869
555	9.25	-0.0252	0.1439	0.0795	1.6942
560	9.33	-0.0252	0.1439	0.0795	1.6942
565	9.42	-0.0249	0.1465	0.0821	1.6973
570	9.50	-0.0237	0.1408	0.0766	1.6899
575	9.58	-0.0223	0.1448	0.0796	1.6954
580	9.67	-0.0098	0.1407	0.0760	1.6899
585	9.75	-0.0098	0.1407	0.0760	1.6899
590	9.83	0.0277	0.1376	0.0729	1.6869
595	9.92	0.0313	0.1393	0.0741	1.6881
600	10.00	0.0323	0.1376	0.0724	1.6893
660	11.00	0.2293	0.1376	0.0715	1.6863
720	12.00	0.2282	0.1344	0.0688	1.6777
780	13.00	0.2293	0.1347	0.0691	1.6777

SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
840	14.00	0.2202	0.1240	0.0583	1.6704
900	15.00	0.2287	0.1327	0.0673	1.6783
960	16.00	0.2301	0.1341	0.0685	1.6851
1020	17.00	0.2395	0.1445	0.0792	1.6899
1080	18.00	0.2359	0.1411	0.0752	1.6875
1140	19.00	0.2333	0.1373	0.0715	1.6796
1200	20.00	0.2139	0.1165	0.0503	1.6643
1260	21.00	0.2108	0.1133	0.0468	1.6533
1320	22.00	0.2141	0.1167	0.0499	1.6606
1380	23.00	0.2246	0.1280	0.0612	1.6692
1440	24.00	0.2241	0.1268	0.0607	1.6704
1500	25.00	0.2112	0.1143	0.0468	1.6558
1560	26.00	0.2151	0.1173	0.0506	1.6570
1620	27.00	0.2333	0.1371	0.0700	1.6790
1680	28.00	0.2304	0.1370	0.0714	1.6381
1740	29.00	0.2276	0.1315	0.0660	1.6771
1800	30.00	0.2243	0.1338	0.0696	1.5624
1860	31.00	0.2128	0.1211	0.0570	1.6356
1920	32.00	0.2189	0.1225	0.0564	1.6594
1980	33.00	0.2067	0.1098	0.0416	1.6472
2040	34.00	0.1944	0.0959	0.0279	1.6350
2100	35.00	0.1928	0.0947	0.0256	1.6362
2160	36.00	0.1999	0.1024	0.0326	1.6436
2220	37.00	0.1922	0.0949	0.0253	1.6393
2280	38.00	0.2180	0.1208	0.0520	1.6875
2340	39.00	0.2238	0.1246	0.0563	1.6997
2400	40.00	0.2153	0.1161	0.0476	1.6875
2460	41.00	0.2224	0.1227	0.0552	1.6857
2520	42.00	0.2383	0.1417	0.0743	1.7131
2580	43.00	0.2302	0.1321	0.0644	1.7046
2640	44.00	0.2287	0.1315	0.0634	1.7034

MAXIMUM		0.2395	0.1545	0.0894	1.7131
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Measuring Point	Distance (feet)	Vacuum (in. H2O)	Ln Vacuum
MP-1	10	0.2395	-1.42906826
MP-2	16.9	0.1545	-1.86729585
MP-3	33.8	0.0894	-2.41479121

IMC Magnetics

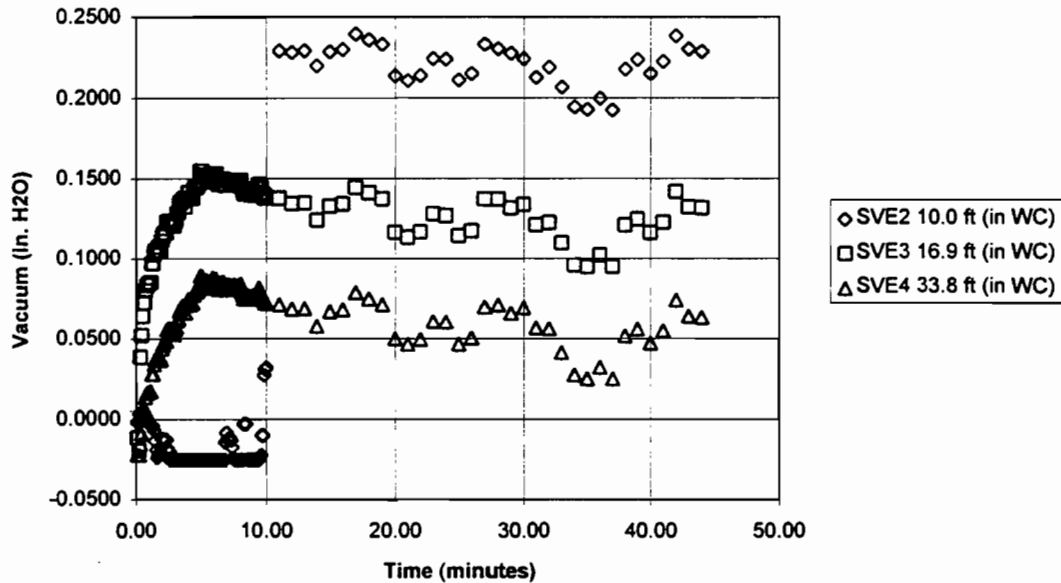
SVE Pilot Test Data

SVE Test One

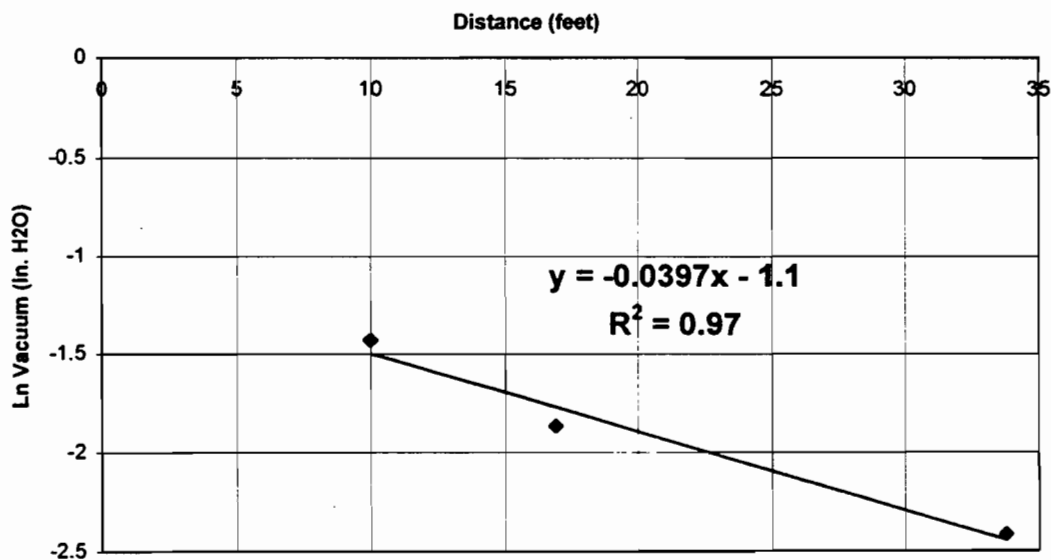
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



■ IMC Magnetics ROI, System Design Specifications
SVE Test One

■ **Steady-State Equations**

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.0397		-1.1	30.2267	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	1.71	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	30	feet	cm
Extraction Rate =	43.6	CFM	cm^3/s

Air Permeability =	1.78E-06 cm^2	or	178.0735 Darcys
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■ **Non-Steady State Equations**

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Extraction Rate =	43.6	CFM	cm^3/s
Slope of Ln (T) vs P, well 1 =	-38.856	g/cm s^2	
Slope of Ln (T) vs P, well 2 =	92.962	g/cm s^2	
Slope of Ln (T) vs P, well 3 =	92.613	g/cm s^2	

Air Permeability, Well 1	-1.7E-05 cm^2	or	-1659.11 Darcys
Air Permeability, Well 2	6.93E-06 cm^2	or	693.4717 Darcys
Air Permeability, Well 3	6.96E-06 cm^2	or	696.085 Darcys

IMC Magnetics

SVE Pilot Test Data

SVE Test One

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
5	1.61	-0.0016	-0.0113	-0.0217	1013004	1013028	1013054
10	2.30	-0.0016	-0.0113	-0.0217	1013004	1013028	1013054
15	2.71	0.0039	-0.0193	-0.0220	1012990	1013048	1013055
20	3.00	0.0020	0.0387	-0.0153	1012995	1012904	1013038
25	3.22	0.0042	0.0523	-0.0086	1012989	1012870	1013021
30	3.40	0.0026	0.0642	0.0004	1012994	1012840	1012999
35	3.56	0.0036	0.0728	0.0071	1012991	1012819	1012982
40	3.69	0.0036	0.0728	0.0071	1012991	1012819	1012982
45	3.81	0.0026	0.0802	0.0142	1012994	1012800	1012965
50	3.91	0.0003	0.0834	0.0166	1012999	1012792	1012959
55	4.01	0.0003	0.0834	0.0166	1012999	1012792	1012959
60	4.09	-0.0016	0.0850	0.0172	1013004	1012789	1012957
65	4.17	-0.0028	0.0853	0.0178	1013007	1012788	1012956
70	4.25	-0.0028	0.0853	0.0178	1013007	1012788	1012956
75	4.32	-0.0043	0.0972	0.0285	1013011	1012758	1012929
80	4.38	-0.0043	0.0972	0.0285	1013011	1012758	1012929
85	4.44	-0.0066	0.1025	0.0345	1013016	1012745	1012914
90	4.50	-0.0133	0.1053	0.0375	1013033	1012738	1012907
95	4.55	-0.0190	0.1045	0.0377	1013047	1012740	1012906
100	4.61	-0.0237	0.1051	0.0370	1013059	1012738	1012908
105	4.65	-0.0212	0.1074	0.0395	1013053	1012733	1012902
110	4.70	-0.0212	0.1074	0.0395	1013053	1012733	1012902
115	4.74	-0.0205	0.1050	0.0374	1013051	1012739	1012907
120	4.79	-0.0118	0.1111	0.0442	1013029	1012724	1012890
125	4.83	-0.0124	0.1140	0.0465	1013031	1012716	1012884
130	4.87	-0.0119	0.1156	0.0480	1013030	1012712	1012880
135	4.91	-0.0125	0.1164	0.0488	1013031	1012710	1012879
140	4.94	-0.0125	0.1164	0.0488	1013031	1012710	1012879
145	4.98	-0.0179	0.1230	0.0560	1013045	1012694	1012861
150	5.01	-0.0202	0.1234	0.0567	1013050	1012693	1012859
155	5.04	-0.0202	0.1234	0.0567	1013050	1012693	1012859
160	5.08	-0.0254	0.1237	0.0564	1013063	1012692	1012860
165	5.11	-0.0240	0.1216	0.0546	1013060	1012697	1012864
170	5.14	-0.0241	0.1213	0.0544	1013060	1012698	1012865
175	5.16	-0.0249	0.1205	0.0529	1013062	1012700	1012868
180	5.19	-0.0251	0.1228	0.0560	1013062	1012694	1012861
185	5.22	-0.0254	0.1242	0.0575	1013063	1012691	1012857
190	5.25	-0.0254	0.1284	0.0616	1013063	1012680	1012847
195	5.27	-0.0252	0.1289	0.0627	1013063	1012679	1012844
200	5.30	-0.0251	0.1338	0.0676	1013062	1012667	1012832
205	5.32	-0.0252	0.1353	0.0692	1013063	1012663	1012828

IMC Magnetics

SVE Pilot Test Data

SVE Test One

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
215	5.37	-0.0254	0.1368	0.0711	1013063	1012659	1012823
220	5.39	-0.0254	0.1378	0.0709	1013063	1012657	1012823
225	5.42	-0.0254	0.1323	0.0665	1013063	1012671	1012835
230	5.44	-0.0254	0.1371	0.0712	1013063	1012659	1012823
235	5.46	-0.0254	0.1371	0.0712	1013063	1012659	1012823
240	5.48	-0.0254	0.1413	0.0750	1013063	1012648	1012813
245	5.50	-0.0254	0.1413	0.0750	1013063	1012648	1012813
250	5.52	-0.0252	0.1375	0.0717	1013063	1012658	1012822
255	5.54	-0.0249	0.1378	0.0724	1013062	1012657	1012820
260	5.56	-0.0249	0.1378	0.0724	1013062	1012657	1012820
265	5.58	-0.0251	0.1433	0.0776	1013062	1012643	1012807
270	5.60	-0.0252	0.1443	0.0798	1013063	1012641	1012801
275	5.62	-0.0252	0.1452	0.0801	1013063	1012639	1012801
280	5.63	-0.0252	0.1443	0.0796	1013063	1012641	1012802
285	5.65	-0.0251	0.1458	0.0805	1013062	1012637	1012800
290	5.67	-0.0249	0.1468	0.0819	1013062	1012635	1012796
295	5.69	-0.0252	0.1545	0.0894	1013063	1012615	1012778
300	5.70	-0.0252	0.1545	0.0894	1013063	1012615	1012778

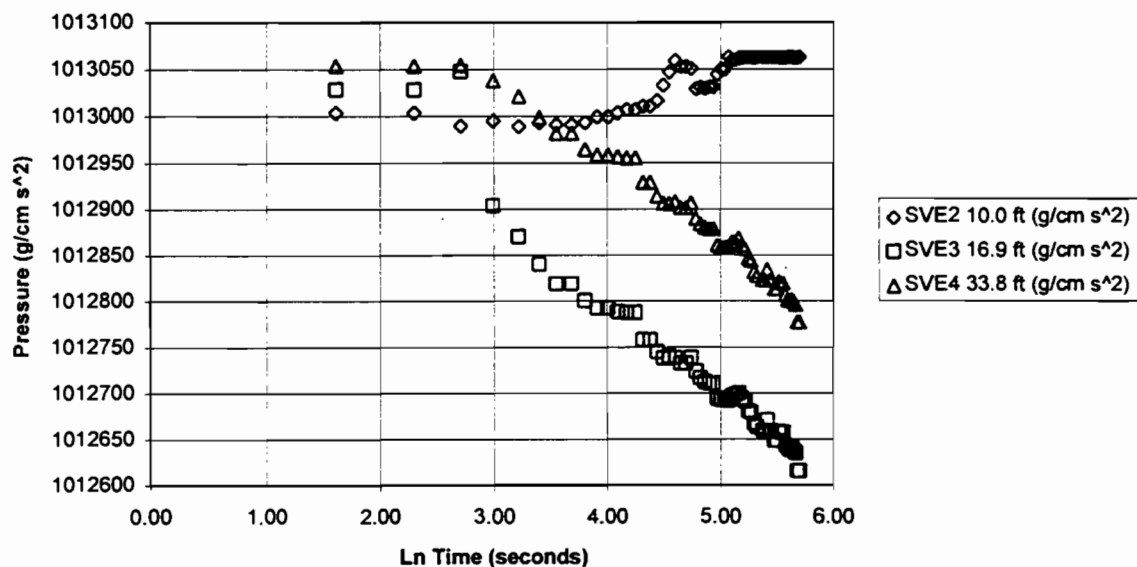
IMC Magnetics

SVE Pilot Test Data

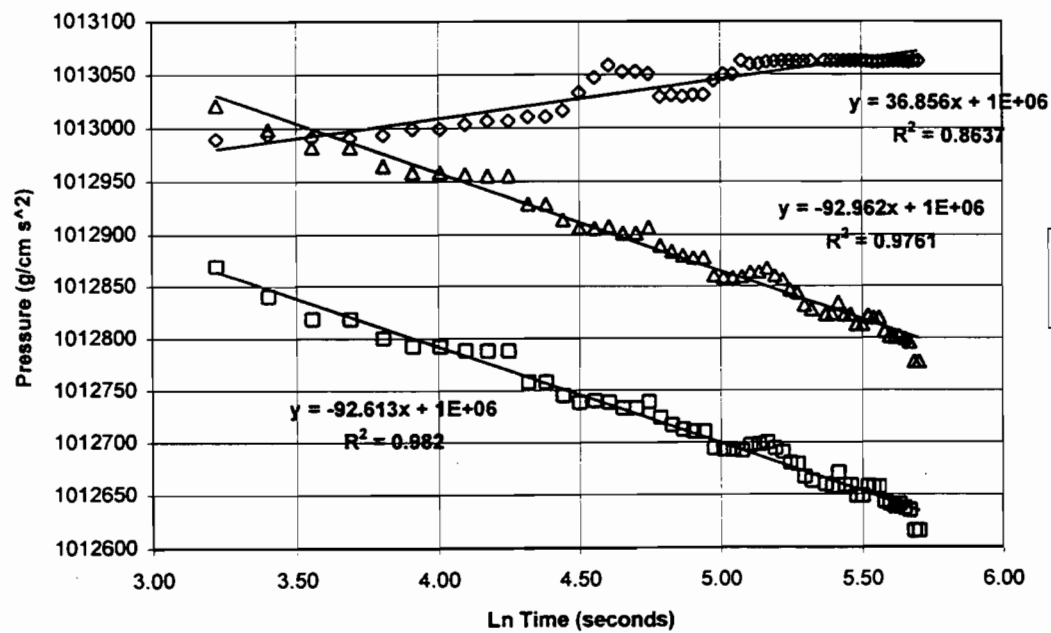
SVE Test One

Non-Steady State Data (ln T vs P)

Ln Time vs Pressure



Ln Time vs Pressure



IMC Magnetics**SVE Pilot Test Data**

Extraction Point:	SVE-1, Shallow	
Flow Rate:	22.9	CFM
Test Name:	SVE Test Two	
Job No.	11531	

Data Log					
Test Start: 7/16/96 10:20:00 AM					
elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
20	0.33	0.1292	0.0822	0.0386	0.8409
25	0.42	0.1185	0.0702	0.0282	0.8251
30	0.50	0.1222	0.0755	0.0329	0.8342
35	0.58	0.1280	0.0811	0.0383	0.8318
40	0.67	0.1280	0.0811	0.0383	0.8318
45	0.75	0.1368	0.0880	0.0433	0.9124
50	0.83	0.1317	0.0786	0.0335	0.9124
55	0.92	0.1317	0.0786	0.0335	0.9124
60	1.00	0.1371	0.0844	0.0383	0.9227
65	1.08	0.1291	0.0802	0.0351	0.9093
70	1.17	0.1291	0.0802	0.0351	0.9093
75	1.25	0.1347	0.0842	0.0360	0.9221
80	1.33	0.1323	0.0793	0.0326	0.9130
85	1.42	0.1323	0.0793	0.0326	0.9130
90	1.50	0.1384	0.0877	0.0409	0.9288
95	1.58	0.1284	0.0755	0.0296	0.9166
100	1.67	0.1284	0.0755	0.0296	0.9166
105	1.75	0.1310	0.0781	0.0325	0.9142
110	1.83	0.1355	0.0816	0.0351	0.9185
115	1.92	0.1358	0.0830	0.0370	0.9221
120	2.00	0.1272	0.0726	0.0261	0.9093
125	2.08	0.1393	0.0877	0.0413	0.9282
130	2.17	0.1393	0.0877	0.0413	0.9282
135	2.25	0.1333	0.0801	0.0340	0.9258
140	2.33	0.1333	0.0801	0.0340	0.9258
145	2.42	0.1284	0.0758	0.0306	0.9215
150	2.50	0.1284	0.0758	0.0306	0.9215
155	2.58	0.1376	0.0844	0.0390	0.9258
160	2.67	0.1373	0.0845	0.0390	0.9264
165	2.75	0.1362	0.0824	0.0370	0.9264
170	2.83	0.1384	0.0853	0.0398	0.9301
175	2.92	0.1437	0.0918	0.0465	0.9331
180	3.00	0.1451	0.0923	0.0479	0.9374
185	3.08	0.1451	0.0926	0.0474	0.9355
190	3.17	0.1497	0.0975	0.0525	0.9417
195	3.25	0.1475	0.0949	0.0497	0.9374

SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
200	3.33	0.1460	0.0940	0.0494	0.9386
205	3.42	0.1451	0.0929	0.0482	0.9355
210	3.50	0.1422	0.0900	0.0453	0.9349
215	3.58	0.1431	0.0908	0.0456	0.9349
220	3.67	0.1448	0.0921	0.0474	0.9362
225	3.75	0.1416	0.0886	0.0435	0.9325
230	3.83	0.1410	0.0885	0.0435	0.9319
235	3.92	0.1439	0.0894	0.0444	0.9337
240	4.00	0.1483	0.0956	0.0511	0.9429
245	4.08	0.1500	0.0973	0.0528	0.9404
250	4.17	0.1509	0.0988	0.0543	0.9478
255	4.25	0.1489	0.0959	0.0525	0.9386
260	4.33	0.1498	0.0972	0.0526	0.9429
265	4.42	0.1498	0.0973	0.0535	0.9417
270	4.50	0.1449	0.0915	0.0470	0.9343
275	4.58	0.1463	0.0937	0.0496	0.9404
280	4.67	0.1463	0.0937	0.0496	0.9404
285	4.75	0.1411	0.0876	0.0433	0.9337
290	4.83	0.1429	0.0900	0.0453	0.9362
295	4.92	0.1426	0.0903	0.0468	0.9343
300	5.00	0.1410	0.0886	0.0444	0.9337
305	5.08	0.1393	0.0865	0.0424	0.9313
310	5.17	0.1404	0.0879	0.0436	0.9337
315	5.25	0.1440	0.0911	0.0464	0.9362
320	5.33	0.1472	0.0947	0.0499	0.9410
325	5.42	0.1501	0.0985	0.0534	0.9453
330	5.50	0.1446	0.0915	0.0470	0.9355
335	5.58	0.1434	0.0908	0.0467	0.9368
340	5.67	0.1477	0.0952	0.0508	0.9423
345	5.75	0.1461	0.0938	0.0483	0.9417
350	5.83	0.1507	0.1002	0.0544	0.9520
355	5.92	0.1465	0.0915	0.0486	0.9246
360	6.00	0.1523	0.1016	0.0557	0.9478
365	6.08	0.1265	0.0679	0.0258	0.9160
370	6.17	0.1112	0.0534	0.0093	0.9056
375	6.25	0.1370	0.0895	0.0447	0.9453
380	6.33	0.1306	0.0770	0.0319	0.9258
385	6.42	0.1300	0.0757	0.0306	0.9166
390	6.50	0.1286	0.0749	0.0290	0.9172
395	6.58	0.1315	0.0778	0.0326	0.9246
400	6.67	0.1396	0.0906	0.0456	0.9337
405	6.75	0.1356	0.0818	0.0366	0.9252
410	6.83	0.1368	0.0833	0.0384	0.9264

SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
415	6.92	0.1368	0.0833	0.0384	0.9264
420	7.00	0.1361	0.0850	0.0401	0.9313
425	7.08	0.1390	0.0856	0.0412	0.9307
430	7.17	0.1394	0.0865	0.0415	0.9331
435	7.25	0.1364	0.0833	0.0381	0.9282
440	7.33	0.1347	0.0821	0.0372	0.9288
445	7.42	0.1365	0.0840	0.0390	0.9337
450	7.50	0.1321	0.0789	0.0343	0.9197
455	7.58	0.1359	0.0830	0.0378	0.9282
460	7.67	0.1362	0.0833	0.0381	0.9301
465	7.75	0.1375	0.0847	0.0395	0.9337
470	7.83	0.1375	0.0847	0.0395	0.9337
475	7.92	0.1402	0.0886	0.0427	0.9404
480	8.00	0.1413	0.0880	0.0428	0.9355
485	8.08	0.1344	0.0795	0.0354	0.9227
490	8.17	0.1324	0.0786	0.0332	0.9270
495	8.25	0.1263	0.0717	0.0273	0.9160
500	8.33	0.1268	0.0732	0.0276	0.9191
505	8.42	0.1213	0.0670	0.0221	0.9105
510	8.50	0.1214	0.0671	0.0216	0.9178
515	8.58	0.1216	0.0668	0.0216	0.9130
520	8.67	0.1205	0.0651	0.0193	0.9111
525	8.75	0.1204	0.0657	0.0193	0.9111
530	8.83	0.1132	0.0566	0.0111	0.9008
535	8.92	0.1165	0.0633	0.0161	0.9172
540	9.00	0.1237	0.0697	0.0232	0.9160
545	9.08	0.1237	0.0697	0.0232	0.9160
550	9.17	0.1277	0.0737	0.0282	0.9221
555	9.25	0.1190	0.0639	0.0184	0.9075
560	9.33	0.1190	0.0639	0.0184	0.9075
575	9.58	0.1199	0.0665	0.0190	0.9166
580	9.67	0.1199	0.0665	0.0190	0.9166
585	9.75	0.1193	0.0645	0.0183	0.9111
590	9.83	0.1179	0.0634	0.0169	0.9081
595	9.92	0.1135	0.0573	0.0113	0.9001
600	10.00	0.1156	0.0619	0.0149	0.9142
660	11.00	0.1188	0.0628	0.0169	0.9001
720	12.00	0.1071	0.0512	0.0036	0.8940
780	13.00	0.1274	0.0731	0.0268	0.9185
840	14.00	0.1223	0.0682	0.0219	0.9166
900	15.00	0.1231	0.0682	0.0221	0.9130
960	16.00	0.1204	0.0714	0.0244	0.8855
1020	17.00	0.1240	0.0775	0.0345	0.8458
1080	18.00	0.1320	0.0859	0.0441	0.8531

SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	EXTR PT 4 (in WC)
1140	19.00	0.1385	0.0860	0.0392	0.9380
1200	20.00	0.1288	0.0760	0.0299	0.9258
1260	21.00	0.1307	0.0786	0.0319	0.9246
1320	22.00	0.1173	0.0630	0.0166	0.9069
1380	23.00	0.1045	0.0496	0.0021	0.9008

MAXIMUM		0.1523	0.1016	0.0557	0.9520
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Measuring Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
MP-1	10	0.1523	-1.88221824
MP-2	16.9	0.1016	-2.28678064
MP-3	33.8	0.0557	-2.88842166

IMC Magnetics

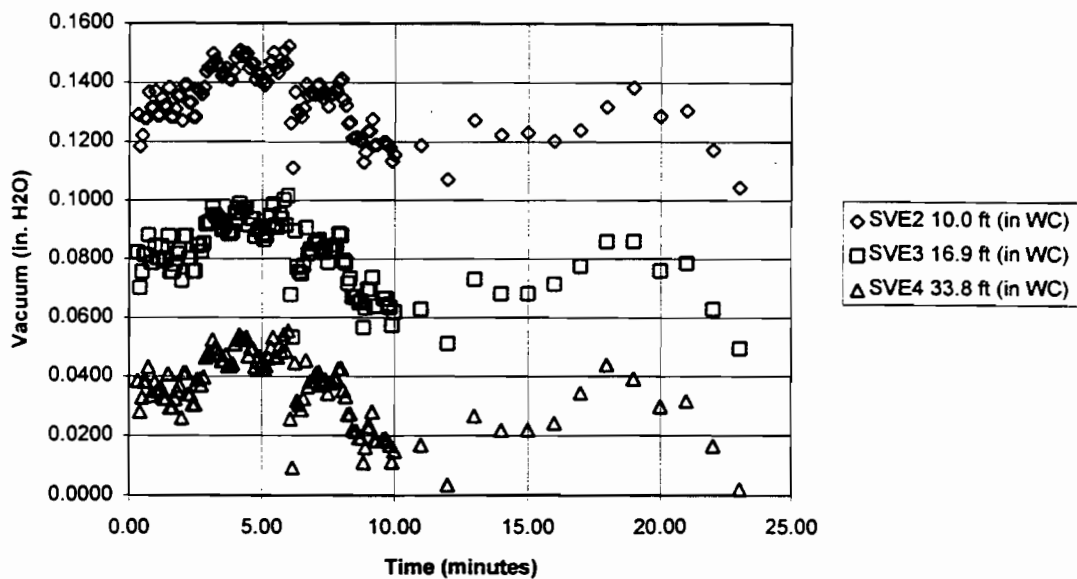
SVE Pilot Test Data

SVE Test Two

Vacuum vs Time

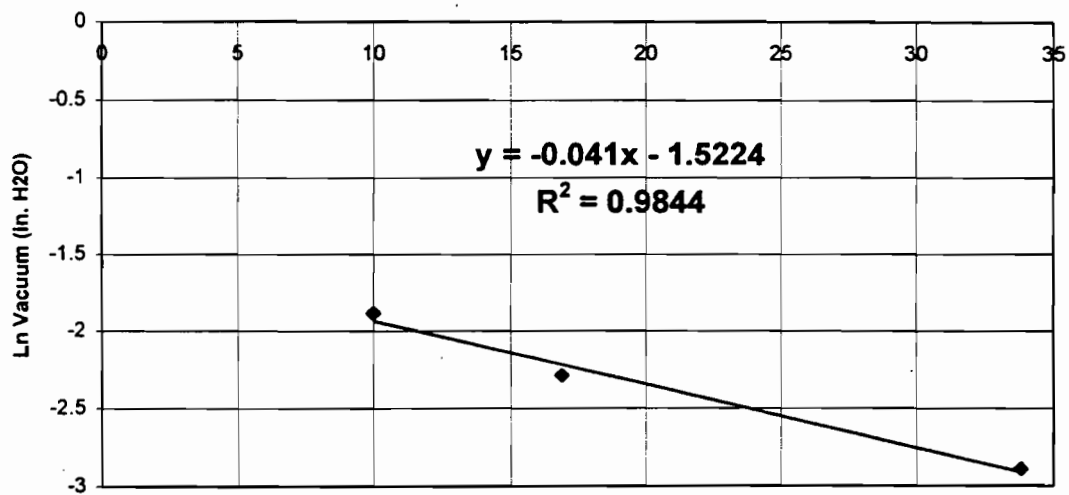
Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance

Distance (feet)



IMC Magnetix ROI, System Design Specifications
SVE Test Two

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.041		-1.5224	18.96585	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	0.952	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	18	feet	cm
Extraction Rate =	22.9	CFM	cm^3/s

Air Permeability =	1.54E-06	cm^2	or	153.5631	Darcys
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IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-1, Intermediate
Flow Rate:	43.6 CFM
Test Name:	SVE Test Three
Job No.	11531

Data Log					
Test Start: 7/16/96 10:52:15 AM					
elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
5	0.08	0.0038	0.0238	0.0078	0.0115
10	0.17	0.0062	0.0256	0.0102	0.0243
15	0.25	0.0105	0.0311	0.0161	0.0164
20	0.33	0.0134	0.0255	0.0088	0.4509
25	0.42	0.0706	0.0488	0.0117	1.4550
30	0.50	0.1233	0.0839	0.0285	1.4830
35	0.58	0.1231	0.0767	0.0154	1.4855
40	0.67	0.1323	0.0831	0.0189	1.4836
45	0.75	0.1330	0.0831	0.0158	1.4885
50	0.83	0.1417	0.0914	0.0209	1.4836
55	0.92	0.1492	0.0982	0.0277	1.4928
60	1.00	0.1458	0.0940	0.0218	1.4971
65	1.08	0.1637	0.1173	0.0441	1.5203
70	1.17	0.1625	0.1109	0.0392	1.4989
75	1.25	0.1657	0.1178	0.0448	1.5190
80	1.33	0.1719	0.1251	0.0528	1.5349
85	1.42	0.1890	0.1436	0.0682	1.5361
90	1.50	0.1880	0.1368	0.0634	1.5203
95	1.58	0.1785	0.1277	0.0538	1.5227
100	1.67	0.1761	0.1263	0.0514	1.5197
105	1.75	0.1780	0.1289	0.0537	1.5215
110	1.83	0.1808	0.1317	0.0564	1.5166
115	1.92	0.1826	0.1335	0.0581	1.5203
120	2.00	0.1886	0.1399	0.0644	1.5331
125	2.08	0.1906	0.1416	0.0654	1.5313
130	2.17	0.1960	0.1480	0.0720	1.5386
135	2.25	0.2037	0.1559	0.0798	1.5374
140	2.33	0.1954	0.1452	0.0694	1.5294
145	2.42	0.1922	0.1425	0.0665	1.5313
150	2.50	0.1898	0.1402	0.0645	1.5227
155	2.58	0.1979	0.1503	0.0737	1.5337
160	2.67	0.2081	0.1608	0.0845	1.5502
165	2.75	0.2090	0.1611	0.0844	1.5477
170	2.83	0.2099	0.1614	0.0848	1.5477
175	2.92	0.2067	0.1579	0.0815	1.5422
180	3.00	0.2015	0.1535	0.0763	1.5453

SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
185	3.08	0.2000	0.1512	0.0750	1.5300
190	3.17	0.2003	0.1519	0.0755	1.5325
195	3.25	0.2041	0.1567	0.0796	1.5477
200	3.33	0.1962	0.1455	0.0689	1.5251
205	3.42	0.1806	0.1289	0.0531	1.5068
210	3.50	0.1939	0.1472	0.0697	1.5319
215	3.58	0.1938	0.1457	0.0691	1.5343
220	3.67	0.2040	0.1577	0.0799	1.5447
225	3.75	0.1980	0.1481	0.0717	1.5294
230	3.83	0.1951	0.1461	0.0694	1.5294
235	3.92	0.1945	0.1446	0.0679	1.5203
240	4.00	0.2026	0.1548	0.0775	1.5343
245	4.08	0.2026	0.1548	0.0775	1.5343
250	4.17	0.2151	0.1696	0.0915	1.5557
255	4.25	0.2124	0.1642	0.0869	1.5380
260	4.33	0.2047	0.1565	0.0795	1.5349
265	4.42	0.2118	0.1651	0.0877	1.5502
270	4.50	0.2142	0.1669	0.0895	1.5447
275	4.58	0.2067	0.1573	0.0802	1.5374
280	4.67	0.2104	0.1619	0.0847	1.5447
285	4.75	0.2104	0.1619	0.0847	1.5447
290	4.83	0.2017	0.1539	0.0779	1.5294
295	4.92	0.2037	0.1552	0.0782	1.5349
300	5.00	0.1962	0.1472	0.0699	1.5264
305	5.08	0.2005	0.1529	0.0757	1.5398
310	5.17	0.2043	0.1561	0.0792	1.5319
315	5.25	0.2029	0.1556	0.0784	1.5380
320	5.33	0.2044	0.1576	0.0807	1.5361
325	5.42	0.1974	0.1472	0.0705	1.5233
330	5.50	0.1976	0.1483	0.0718	1.5264
335	5.58	0.1950	0.1455	0.0683	1.5270
340	5.67	0.1950	0.1455	0.0683	1.5270
345	5.75	0.1991	0.1519	0.0744	1.5288
350	5.83	0.2025	0.1532	0.0760	1.5294
355	5.92	0.2025	0.1533	0.0764	1.5264
360	6.00	0.1977	0.1480	0.0712	1.5258
365	6.08	0.2005	0.1526	0.0749	1.5294
370	6.17	0.2101	0.1645	0.0863	1.5453
375	6.25	0.2060	0.1588	0.0808	1.5380
380	6.33	0.2147	0.1681	0.0901	1.5502
385	6.42	0.2208	0.1741	0.0967	1.5538
390	6.50	0.2052	0.1552	0.0789	1.5288
395	6.58	0.1970	0.1478	0.0708	1.5294

SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
400	6.67	0.1948	0.1468	0.0694	1.5245
405	6.75	0.2037	0.1562	0.0787	1.5325
410	6.83	0.2070	0.1584	0.0821	1.5349
415	6.92	0.2119	0.1654	0.0883	1.5410
420	7.00	0.2157	0.1681	0.0912	1.5483
425	7.08	0.2205	0.1739	0.0976	1.5532
430	7.17	0.2205	0.1739	0.0976	1.5532
435	7.25	0.2180	0.1703	0.0937	1.5416
440	7.33	0.2107	0.1628	0.0854	1.5447
445	7.42	0.2079	0.1602	0.0825	1.5386
450	7.50	0.2150	0.1687	0.0917	1.5544
455	7.58	0.2116	0.1646	0.0876	1.5477
460	7.67	0.2112	0.1637	0.0866	1.5380
465	7.75	0.2090	0.1614	0.0845	1.5428
470	7.83	0.2115	0.1643	0.0868	1.5398
475	7.92	0.2151	0.1674	0.0903	1.5465
480	8.00	0.2110	0.1628	0.0862	1.5386
485	8.08	0.2101	0.1640	0.0869	1.5459
490	8.17	0.2122	0.1649	0.0880	1.5374
495	8.25	0.2122	0.1649	0.0880	1.5374
500	8.33	0.1991	0.1497	0.0728	1.5258
505	8.42	0.1960	0.1480	0.0721	1.5239
510	8.50	0.2012	0.1538	0.0766	1.5331
515	8.58	0.2096	0.1622	0.0853	1.5398
520	8.67	0.2096	0.1622	0.0853	1.5398
525	8.75	0.2093	0.1619	0.0848	1.5404
530	8.83	0.2168	0.1713	0.0938	1.5502
535	8.92	0.2192	0.1721	0.0946	1.5410
540	9.00	0.2182	0.1709	0.0935	1.5398
545	9.08	0.2145	0.1666	0.0906	1.5361
550	9.17	0.2148	0.1677	0.0903	1.5435
555	9.25	0.2093	0.1611	0.0845	1.5270
560	9.33	0.2093	0.1611	0.0845	1.5270
565	9.42	0.2098	0.1637	0.0866	1.5386
570	9.50	0.2064	0.1579	0.0815	1.5276
575	9.58	0.2064	0.1579	0.0815	1.5276
580	9.67	0.2116	0.1643	0.0883	1.5410
585	9.75	0.2099	0.1625	0.0856	1.5374
590	9.83	0.2157	0.1696	0.0923	1.5471
595	9.92	0.2078	0.1584	0.0819	1.5313
600	10.00	0.2018	0.1538	0.0767	1.5264
660	11.00	0.2169	0.1718	0.0943	1.5575
720	12.00	0.2083	0.1602	0.0833	1.5374
780	13.00	0.2173	0.1700	0.0934	1.5367

■ SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
840	14.00	0.2304	0.1851	0.1078	1.5575
900	15.00	0.2215	0.1756	0.0982	1.5496
960	16.00	0.2260	0.1799	0.1028	1.5575
1020	17.00	0.2134	0.1675	0.0906	1.5447
1080	18.00	0.2327	0.1878	0.1109	1.5605
1140	19.00	0.2304	0.1846	0.1075	1.5526
1200	20.00	0.2185	0.1698	0.0941	1.5361
1260	21.00	0.2050	0.1622	0.0880	1.3817
1320	22.00	0.2119	0.1657	0.0892	1.5355
1380	23.00	0.2066	0.1603	0.0828	1.5337
1440	24.00	0.2261	0.1803	0.1031	1.5435
1500	25.00	0.2012	0.1542	0.0763	1.5294
1560	26.00	0.1759	0.1268	0.0488	1.4989
1620	27.00	0.1861	0.1387	0.0592	1.5142
1680	28.00	0.1756	0.1234	0.0457	1.4959
1740	29.00	0.1787	0.1283	0.0502	1.4983
1800	30.00	0.1866	0.1381	0.0599	1.5068
1860	31.00	0.1909	0.1416	0.0633	1.5056
1920	32.00	0.1835	0.1350	0.0561	1.5099
1980	33.00	0.1968	0.1489	0.0711	1.5154
2040	34.00	0.2342	0.1893	0.1118	1.5618
2100	35.00	0.2438	0.1989	0.1213	1.5581
2160	36.00	0.2316	0.1877	0.1103	1.5496
2220	37.00	0.2258	0.1809	0.1033	1.5471
2280	38.00	0.2234	0.1785	0.1005	1.5477
2340	39.00	0.2116	0.1672	0.0892	1.5374
2400	40.00	0.1977	0.1486	0.0731	1.5038
2460	41.00	0.2047	0.1541	0.0787	1.5044
2520	42.00	0.1832	0.1317	0.0554	1.5007
2580	43.00	0.1686	0.1147	0.0395	1.4824
2640	44.00	0.1787	0.1330	0.0544	1.5093
2700	45.00	0.2043	0.1558	0.0790	1.5166
2760	46.00	0.1672	0.1162	0.0386	1.4843
2820	47.00	0.1957	0.1477	0.0697	1.5184
2880	48.00	0.2025	0.1541	0.0772	1.5197
2940	49.00	0.1976	0.1492	0.0714	1.5111
3000	50.00	0.2035	0.1550	0.0775	1.5123
3060	51.00	0.1828	0.1339	0.0555	1.5007
3120	52.00	0.1582	0.1057	0.0285	1.4739
3180	53.00	0.2087	0.1606	0.0830	1.5221
3240	54.00	0.2041	0.1562	0.0789	1.5184
3300	55.00	0.2041	0.1555	0.0789	1.5081
3360	56.00	0.2064	0.1593	0.0824	1.5282
3420	57.00	0.2075	0.1610	0.0831	1.5294

SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
3480	58.00	0.2374	0.1906	0.1135	1.5502
3540	59.00	0.2139	0.1640	0.0877	1.5245
3600	60.00	0.1828	0.1333	0.0558	1.5074
3660	61.00	0.1921	0.1411	0.0647	1.5160

MAXIMUM		0.2438	0.1989	0.1213	1.5618
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Measuring Point	Distance (feet)	Vacuum (in. H2O)	Ln Vacuum
MP-1	10	0.2438	-1.4113866
MP-2	16.9	0.1989	-1.6147319
MP-3	33.8	0.1213	-2.1096781

IMC Magnetics

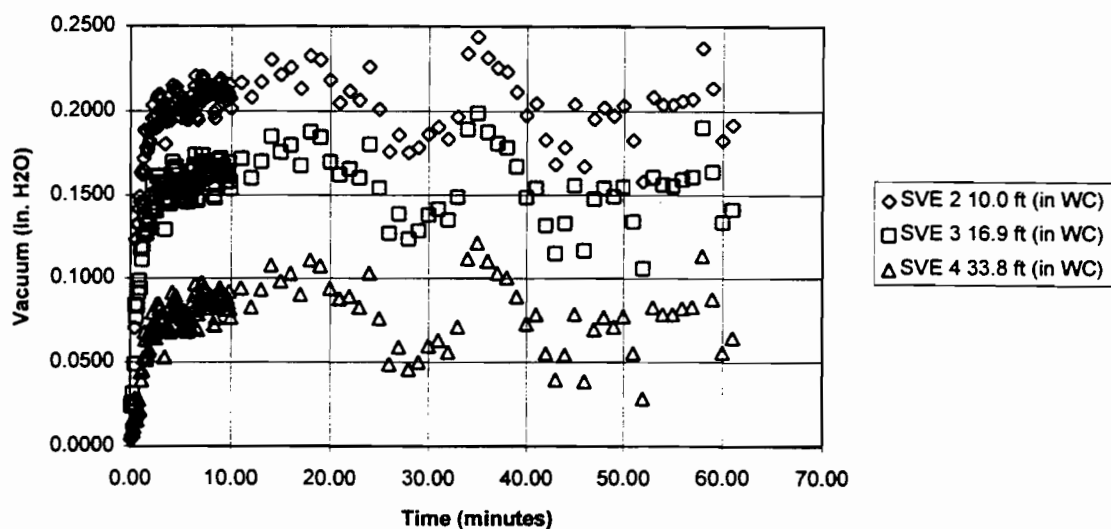
SVE Pilot Test Data

SVE Test Three

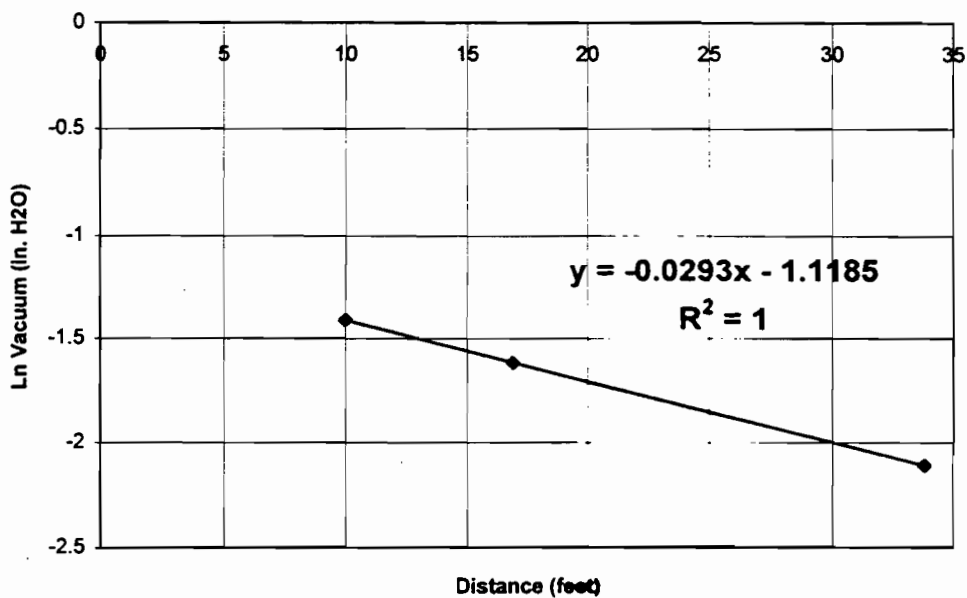
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetics ROI, System Design Specifications
SVE Test Three

Steady-State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.0293		-1.1185	40.32423	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	1.5618	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	40	feet	cm
Extraction Rate =	43.6	CFM	cm^3/s

Air Permeability =	2.05E-06 cm^2	or	204.8016 Darcys
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Non-Steady State Equations

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Extraction Rate =	43.6	CFM	cm^3/s
Slope of Ln (T) vs P, well 1 =	91.537	g/cm s^2	
Slope of Ln (T) vs P, well 2 =	131.15	g/cm s^2	
Slope of Ln (T) vs P, well 3 =	149.34	g/cm s^2	

Air Permeability, Well 1	7.04E-06 cm^2	or	704.2673 Darcys
Air Permeability, Well 2	4.92E-06 cm^2	or	491.548 Darcys
Air Permeability, Well 3	4.32E-06 cm^2	or	431.6762 Darcys

IMC Magnetics

SVE Pilot Test Data

SVE Test Three

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
5	1.61	0.0038	0.0238	0.0078	1012991	1012941	1012981
10	2.30	0.0062	0.0256	0.0102	1012985	1012936	1012975
15	2.71	0.0105	0.0311	0.0161	1012974	1012923	1012960
20	3.00	0.0134	0.0255	0.0088	1012967	1012937	1012978
25	3.22	0.0706	0.0488	0.0117	1012824	1012879	1012971
30	3.40	0.1233	0.0839	0.0285	1012693	1012791	1012929
35	3.56	0.1231	0.0767	0.0154	1012694	1012809	1012962
40	3.69	0.1323	0.0831	0.0189	1012671	1012793	1012953
45	3.81	0.1330	0.0831	0.0158	1012669	1012793	1012961
50	3.91	0.1417	0.0914	0.0209	1012647	1012773	1012948
55	4.01	0.1492	0.0982	0.0277	1012629	1012756	1012931
60	4.09	0.1458	0.0940	0.0218	1012637	1012766	1012946
65	4.17	0.1637	0.1173	0.0441	1012593	1012708	1012890
70	4.25	0.1625	0.1109	0.0392	1012596	1012724	1012902
75	4.32	0.1657	0.1178	0.0448	1012588	1012707	1012888
80	4.38	0.1719	0.1251	0.0528	1012572	1012689	1012869
85	4.44	0.1890	0.1436	0.0682	1012530	1012643	1012830
90	4.50	0.1880	0.1368	0.0634	1012532	1012659	1012842
95	4.55	0.1785	0.1277	0.0538	1012556	1012682	1012866
100	4.61	0.1761	0.1263	0.0514	1012562	1012686	1012872
105	4.65	0.1780	0.1289	0.0537	1012557	1012679	1012866
110	4.70	0.1808	0.1317	0.0564	1012550	1012672	1012860
115	4.74	0.1826	0.1335	0.0581	1012546	1012668	1012855
120	4.79	0.1886	0.1399	0.0644	1012531	1012652	1012840
125	4.83	0.1906	0.1416	0.0654	1012526	1012648	1012837
130	4.87	0.1960	0.1480	0.0720	1012512	1012632	1012821
135	4.91	0.2037	0.1559	0.0798	1012493	1012612	1012801
140	4.94	0.1954	0.1452	0.0694	1012514	1012639	1012827
145	4.98	0.1922	0.1425	0.0665	1012522	1012645	1012835
150	5.01	0.1898	0.1402	0.0645	1012528	1012651	1012839
155	5.04	0.1979	0.1503	0.0737	1012508	1012626	1012817
160	5.08	0.2081	0.1608	0.0845	1012482	1012600	1012790
165	5.11	0.2090	0.1611	0.0844	1012480	1012599	1012790
170	5.14	0.2099	0.1614	0.0848	1012478	1012598	1012789
175	5.16	0.2067	0.1579	0.0815	1012486	1012607	1012797
180	5.19	0.2015	0.1535	0.0763	1012498	1012618	1012810
185	5.22	0.2000	0.1512	0.0750	1012502	1012624	1012813
190	5.25	0.2003	0.1519	0.0755	1012501	1012622	1012812
195	5.27	0.2041	0.1567	0.0796	1012492	1012610	1012802
200	5.30	0.1962	0.1455	0.0689	1012512	1012638	1012828
205	5.32	0.1806	0.1289	0.0531	1012550	1012679	1012868

IMC Magnetics

SVE Pilot Test Data

SVE Test Three

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
215	5.37	0.1938	0.1457	0.0691	1012518	1012637	1012828
220	5.39	0.2040	0.1577	0.0799	1012492	1012607	1012801
225	5.42	0.1980	0.1481	0.0717	1012507	1012631	1012822
230	5.44	0.1951	0.1461	0.0694	1012514	1012636	1012827
235	5.46	0.1945	0.1446	0.0679	1012516	1012640	1012831
240	5.48	0.2026	0.1548	0.0775	1012496	1012615	1012807
245	5.50	0.2026	0.1548	0.0775	1012496	1012615	1012807
250	5.52	0.2151	0.1696	0.0915	1012465	1012578	1012772
255	5.54	0.2124	0.1642	0.0869	1012471	1012591	1012784
260	5.56	0.2047	0.1565	0.0795	1012490	1012610	1012802
265	5.58	0.2118	0.1651	0.0877	1012473	1012589	1012782
270	5.60	0.2142	0.1669	0.0895	1012467	1012585	1012777
275	5.62	0.2067	0.1573	0.0802	1012486	1012609	1012800
280	5.63	0.2104	0.1619	0.0847	1012476	1012597	1012789
285	5.65	0.2104	0.1619	0.0847	1012476	1012597	1012789
290	5.67	0.2017	0.1539	0.0779	1012498	1012617	1012806
295	5.69	0.2037	0.1552	0.0782	1012493	1012614	1012805
300	5.70	0.1962	0.1472	0.0699	1012512	1012634	1012826

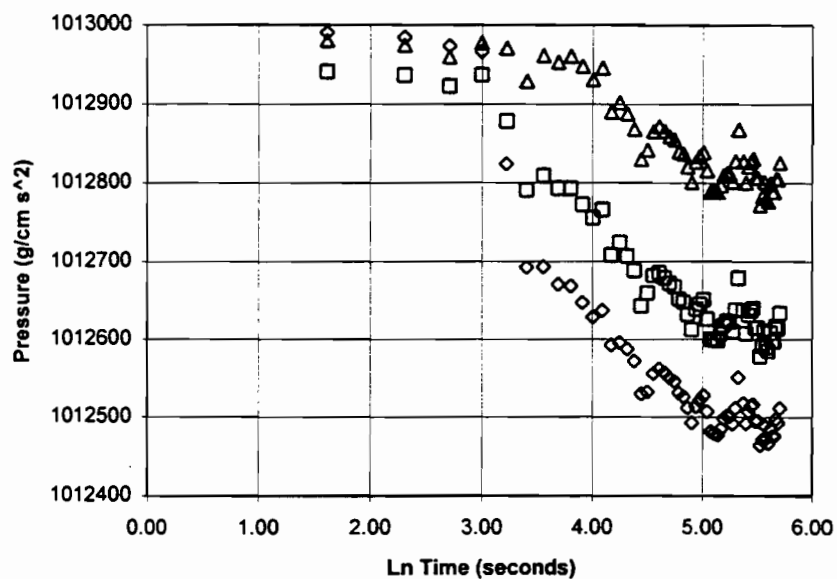
IMC Magnetics

SVE Pilot Test Data

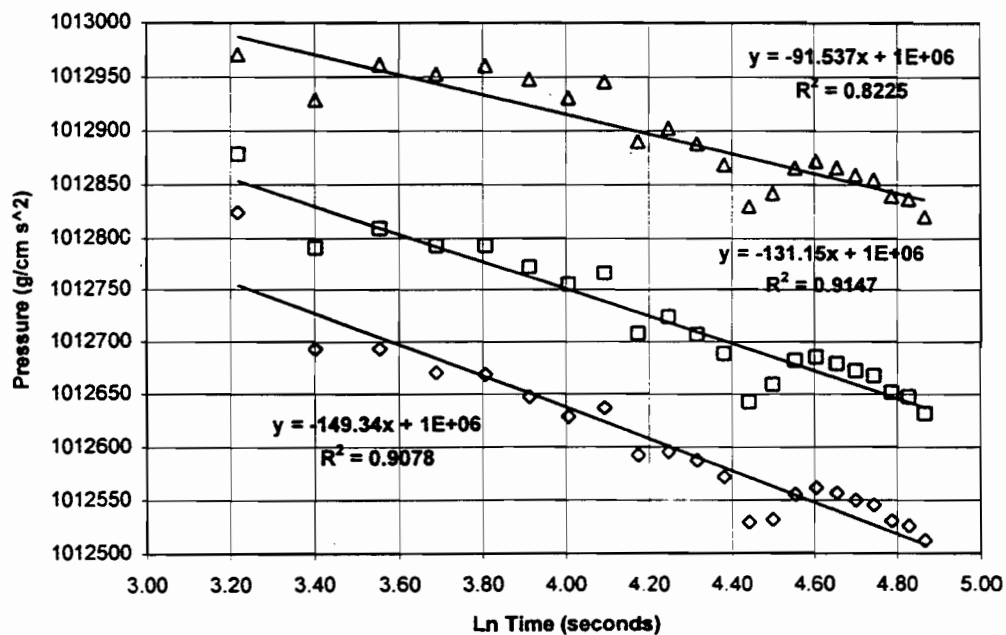
SVE Test Three

Non-Steady State Data (ln T vs P)

Ln Time vs Pressure



Ln Time vs Pressure



IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-1, Intermediate
Flow Rate:	26.2 CFM
Test Name:	SVE Test Four
Job No.	11531

Data Log					
Test Start: 7/16/96 12:11:15 PM					
elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
5	0.08	0.0728	0.0532	-0.0002	0.6786
10	0.17	0.0700	0.0479	-0.0032	0.6755
15	0.25	0.0700	0.0479	-0.0032	0.6755
20	0.33	0.0650	0.0421	-0.0087	0.6774
25	0.42	0.0631	0.0407	-0.0109	0.6731
30	0.50	0.0638	0.0407	-0.0103	0.6755
35	0.58	0.0638	0.0401	-0.0101	0.6707
40	0.67	0.0647	0.0416	-0.0092	0.6725
45	0.75	0.0735	0.0531	0.0010	0.6908
50	0.83	0.0735	0.0531	0.0010	0.6908
55	0.92	0.0891	0.0683	0.0180	0.7000
60	1.00	0.0880	0.0670	0.0163	0.6981
65	1.08	0.0869	0.0651	0.0142	0.6969
70	1.17	0.0810	0.0595	0.0085	0.6890
75	1.25	0.0810	0.0595	0.0085	0.6890
80	1.33	0.0842	0.0631	0.0123	0.6969
85	1.42	0.0851	0.0645	0.0131	0.6963
90	1.50	0.0824	0.0601	0.0093	0.6884
95	1.58	0.0825	0.0612	0.0103	0.6945
100	1.67	0.0793	0.0570	0.0068	0.6926
105	1.75	0.0779	0.0567	0.0059	0.6859
110	1.83	0.0651	0.0422	-0.0078	0.6798
115	1.92	0.0670	0.0450	-0.0052	0.6804
120	2.00	0.0708	0.0499	-0.0003	0.6798
125	2.08	0.0779	0.0580	0.0071	0.7573
130	2.17	0.0844	0.0605	0.0082	0.7708
135	2.25	0.0810	0.0554	0.0030	0.7634
140	2.33	0.0883	0.0638	0.0111	0.7689
145	2.42	0.0937	0.0712	0.0175	0.7982
150	2.50	0.0961	0.0734	0.0197	0.7921
155	2.58	0.0921	0.0657	0.0136	0.7836
160	2.67	0.0866	0.0604	0.0076	0.7762
165	2.75	0.0747	0.0447	-0.0075	0.7433
170	2.83	0.0892	0.0662	0.0119	0.7830
175	2.92	0.0844	0.0555	0.0032	0.7689
180	3.00	0.0721	0.0450	-0.0093	0.7592

SVE TEST FOUR

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
185	3.08	0.0813	0.0560	0.0015	0.7744
190	3.17	0.0789	0.0520	-0.0013	0.7769
195	3.25	0.0764	0.0509	-0.0037	0.7787
200	3.33	0.0837	0.0586	0.0032	0.7689
205	3.42	0.0444	0.0102	-0.0222	0.7366
210	3.50	0.0804	0.0586	0.0016	0.7811
215	3.58	0.0857	0.0616	0.0073	0.7848
220	3.67	0.0796	0.0537	-0.0005	0.7756
225	3.75	0.0963	0.0732	0.0180	0.7915
230	3.83	0.1011	0.0757	0.0212	0.7860
235	3.92	0.1039	0.0781	0.0241	0.7970
240	4.00	0.0963	0.0711	0.0169	0.7842
245	4.08	0.0779	0.0490	-0.0035	0.7653
250	4.17	0.0784	0.0534	-0.0006	0.7787
255	4.25	0.0824	0.0575	0.0026	0.7805
260	4.33	0.0880	0.0624	0.0087	0.7781
265	4.42	0.0822	0.0566	0.0021	0.7787
270	4.50	0.0903	0.0670	0.0126	0.7909
275	4.58	0.0903	0.0670	0.0126	0.7909
280	4.67	0.0874	0.0621	0.0084	0.7787
285	4.75	0.0917	0.0692	0.0158	0.7946
290	4.83	0.0961	0.0723	0.0181	0.7958
295	4.92	0.0941	0.0691	0.0142	0.7878
300	5.00	0.0892	0.0634	0.0094	0.7823
305	5.08	0.0892	0.0634	0.0094	0.7823
310	5.17	0.0799	0.0525	-0.0022	0.7720
315	5.25	0.0927	0.0688	0.0143	0.7891
320	5.33	0.0924	0.0663	0.0125	0.7830
325	5.42	0.0866	0.0593	0.0065	0.7769
330	5.50	0.0950	0.0718	0.0168	0.7964
335	5.58	0.0999	0.0753	0.0215	0.7939
340	5.67	0.1028	0.0796	0.0251	0.7994
345	5.75	0.1028	0.0796	0.0251	0.7994
350	5.83	0.0952	0.0688	0.0155	0.7805
355	5.92	0.0894	0.0636	0.0093	0.7787
360	6.00	0.0895	0.0647	0.0105	0.7903
365	6.08	0.0995	0.0740	0.0204	0.7952
370	6.17	0.0903	0.0641	0.0099	0.7817
375	6.25	0.0825	0.0551	0.0024	0.7738
380	6.33	0.0886	0.0651	0.0110	0.7952
385	6.42	0.1111	0.0909	0.0345	0.8153
390	6.50	0.1039	0.0782	0.0250	0.8000
395	6.58	0.1021	0.0779	0.0236	0.7921

SVE TEST FOUR

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
400	6.67	0.1021	0.0779	0.0236	0.7921
405	6.75	0.0941	0.0705	0.0168	0.7982
410	6.83	0.1075	0.0854	0.0306	0.8080
415	6.92	0.1095	0.0859	0.0313	0.8062
420	7.00	0.1085	0.0839	0.0303	0.8080
425	7.08	0.1085	0.0839	0.0303	0.8080
430	7.17	0.1043	0.0798	0.0253	0.7952
435	7.25	0.1005	0.0743	0.0209	0.7946
440	7.33	0.1005	0.0743	0.0209	0.7946
445	7.42	0.1004	0.0770	0.0222	0.7988
450	7.50	0.0692	0.0372	-0.0139	0.7488
455	7.58	0.0692	0.0372	-0.0139	0.7488
460	7.67	0.0862	0.0628	0.0085	0.7921
465	7.75	0.1057	0.0840	0.0284	0.8062
470	7.83	0.0963	0.0711	0.0168	0.7921
475	7.92	0.0963	0.0711	0.0168	0.7921
480	8.00	0.0915	0.0653	0.0126	0.7823
485	8.08	0.0895	0.0648	0.0099	0.7817
490	8.17	0.0891	0.0631	0.0099	0.7823
495	8.25	0.0651	0.0372	-0.0162	0.7653
500	8.33	0.0609	0.0317	-0.0209	0.7537
505	8.42	0.0691	0.0424	-0.0113	0.7714
510	8.50	0.0853	0.0615	0.0062	0.7848
515	8.58	0.0767	0.0522	-0.0023	0.7744
520	8.67	0.0824	0.0546	0.0003	0.7689
525	8.75	0.0706	0.0422	-0.0107	0.7549
530	8.83	0.0706	0.0422	-0.0107	0.7549
535	8.92	0.0758	0.0512	-0.0035	0.7817
540	9.00	0.0863	0.0660	0.0107	0.7964
545	9.08	0.0830	0.0573	0.0036	0.7744
550	9.17	0.0924	0.0688	0.0142	0.7946
555	9.25	0.0924	0.0688	0.0142	0.7946
560	9.33	0.0854	0.0578	0.0070	0.7744
565	9.42	0.0706	0.0424	-0.0104	0.7610
570	9.50	0.0975	0.0737	0.0197	0.7921
575	9.58	0.1063	0.0815	0.0271	0.7988
580	9.67	0.0975	0.0694	0.0171	0.7842
585	9.75	0.1298	0.1072	0.0531	0.8245
590	9.83	0.1280	0.1050	0.0512	0.8251
595	9.92	0.1170	0.0937	0.0392	0.8141
600	10.00	0.1019	0.0796	0.0250	0.8086
660	11.00	0.1037	0.0798	0.0264	0.7958
720	12.00	0.0883	0.0634	0.0114	0.7878
780	13.00	0.0985	0.0772	0.0271	0.7103

MAXIMUM	0.1298	0.1072	0.0531	0.8251
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Measuring Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
MP-1	10	0.1298	-2.041591
MP-2	16.9	0.1072	-2.23269529
MP-3	33.8	0.0531	-2.93614348

IMC Magnetics

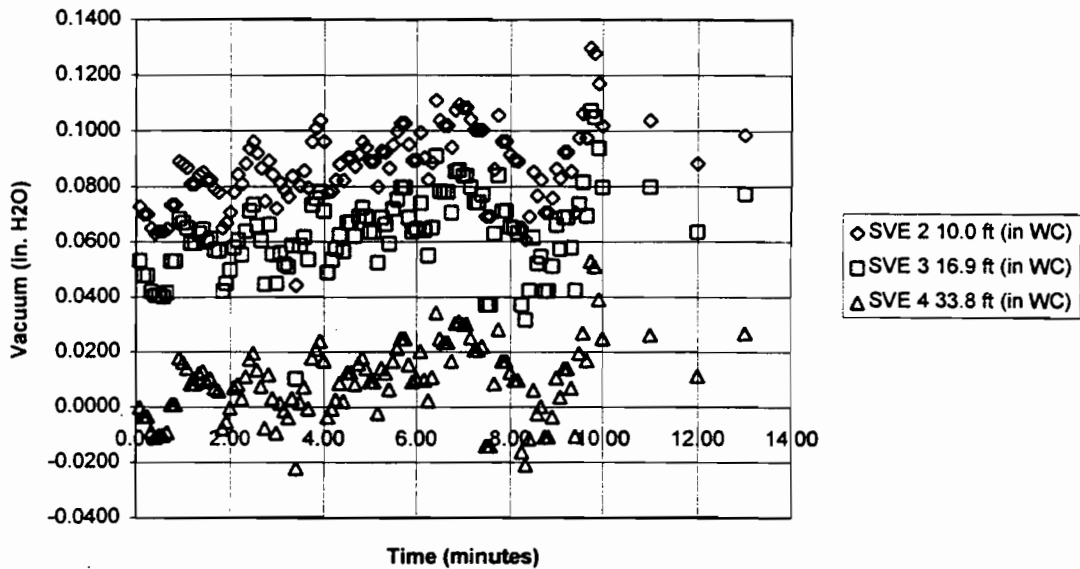
SVE Pilot Test Data

SVE Test Four

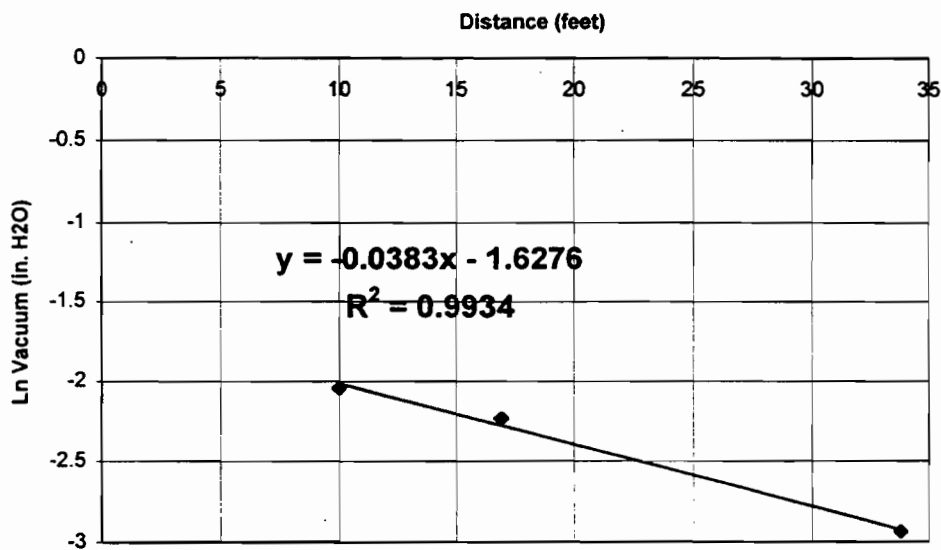
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetics ROI, System Design Specifications
SVE Test Four

Steady-State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B
	-0.0383		-1.6276

"ROI"
17.55614

Feet

Screened Thickness (H) =	15	feet
Air Viscosity =	0.00018	g/cm-s (poise)
Vacuum in SVE Well =	0.8251	in. H ₂ O
Atmospheric Pressure =	1	ATM
Well Radius =	1	inches
Radius of Influence =	18	feet
Extraction Rate =	26.2	CFM

conv. to: cm

g/cm s²

g/cm s²

cm

cm

cm³/s

Air Permeability =	2.02E-06 cm ²
--------------------	--------------------------

or

201.8036 Darcys

Non-Steady State Equations

Screened Thickness (H) =	15	feet
Air Viscosity =	0.00018	g/cm-s (poise)
Extraction Rate =	43.6	CFM
Slope of Ln (T) vs P, well 1 =	169.05	g/cm s ²
Slope of Ln (T) vs P, well 2 =	438.19	g/cm s ²
Slope of Ln (T) vs P, well 3 =	599.54	g/cm s ²

conv. to: cm

cm³/s

Air Permeability, Well 1	3.81E-06 cm ²
Air Permeability, Well 2	1.47E-06 cm ²
Air Permeability, Well 3	1.08E-06 cm ²

or

381.3459 Darcys
147.12 Darcys
107.5266 Darcys

IMC Magnetics

SVE Pilot Test Data

SVE Test Four

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
5	1.61	0.0728	0.0532	-0.0002	1012819	1012868	1013000
10	2.30	0.0700	0.0479	-0.0032	1012826	1012881	1013008
15	2.71	0.0700	0.0479	-0.0032	1012826	1012881	1013008
20	3.00	0.0650	0.0421	-0.0087	1012838	1012895	1013022
25	3.22	0.0631	0.0407	-0.0109	1012843	1012899	1013027
30	3.40	0.0638	0.0407	-0.0103	1012841	1012899	1013026
35	3.56	0.0638	0.0401	-0.0101	1012841	1012900	1013025
40	3.69	0.0647	0.0416	-0.0092	1012839	1012896	1013023
45	3.81	0.0735	0.0531	0.0010	1012817	1012868	1012997
50	3.91	0.0735	0.0531	0.0010	1012817	1012868	1012997
55	4.01	0.0891	0.0683	0.0180	1012778	1012830	1012955
60	4.09	0.0880	0.0670	0.0163	1012781	1012833	1012959
65	4.17	0.0869	0.0651	0.0142	1012784	1012838	1012965
70	4.25	0.0810	0.0595	0.0085	1012798	1012852	1012979
75	4.32	0.0810	0.0595	0.0085	1012798	1012852	1012979
80	4.38	0.0842	0.0631	0.0123	1012790	1012843	1012969
85	4.44	0.0851	0.0645	0.0131	1012788	1012839	1012967
90	4.50	0.0824	0.0601	0.0093	1012795	1012850	1012977
95	4.55	0.0825	0.0612	0.0103	1012795	1012848	1012974
100	4.61	0.0793	0.0570	0.0068	1012803	1012858	1012983
105	4.65	0.0779	0.0567	0.0059	1012806	1012859	1012985
110	4.70	0.0651	0.0422	-0.0078	1012838	1012895	1013019
115	4.74	0.0670	0.0450	-0.0052	1012833	1012888	1013013
120	4.79	0.0708	0.0499	-0.0003	1012824	1012876	1013001
125	4.83	0.0779	0.0580	0.0071	1012806	1012856	1012982
130	4.87	0.0844	0.0605	0.0082	1012790	1012849	1012980
135	4.91	0.0810	0.0554	0.0030	1012798	1012862	1012992
140	4.94	0.0883	0.0638	0.0111	1012780	1012841	1012972
145	4.98	0.0937	0.0712	0.0175	1012767	1012823	1012956
150	5.01	0.0961	0.0734	0.0197	1012761	1012817	1012951
155	5.04	0.0921	0.0657	0.0136	1012771	1012836	1012966
160	5.08	0.0866	0.0604	0.0076	1012784	1012850	1012981
165	5.11	0.0747	0.0447	-0.0075	1012814	1012889	1013019
170	5.14	0.0892	0.0662	0.0119	1012778	1012835	1012970
175	5.16	0.0844	0.0555	0.0032	1012790	1012862	1012992
180	5.19	0.0721	0.0450	-0.0093	1012820	1012888	1013023
185	5.22	0.0813	0.0560	0.0015	1012798	1012861	1012996
190	5.25	0.0789	0.0520	-0.0013	1012804	1012871	1013003
195	5.27	0.0764	0.0509	-0.0037	1012810	1012873	1013009
200	5.30	0.0837	0.0586	0.0032	1012792	1012854	1012992
205	5.32	0.0444	0.0102	-0.0222	1012890	1012975	1013055

IMC Magnetix

SVE Pilot Test Data

SVE Test Four

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (ln WC)	SVE3 16.9 ft (ln WC)	SVE4 33.8 ft (ln WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
215	5.37	0.0857	0.0616	0.0073	1012787	1012847	1012982
220	5.39	0.0796	0.0537	-0.0005	1012802	1012866	1013001
225	5.42	0.0963	0.0732	0.0180	1012760	1012818	1012955
230	5.44	0.1011	0.0757	0.0212	1012748	1012812	1012947
235	5.46	0.1039	0.0781	0.0241	1012741	1012806	1012940
240	5.48	0.0963	0.0711	0.0169	1012760	1012823	1012958
245	5.50	0.0779	0.0490	-0.0035	1012806	1012878	1013009
250	5.52	0.0784	0.0534	-0.0006	1012805	1012867	1013002
255	5.54	0.0824	0.0575	0.0026	1012795	1012857	1012994
260	5.56	0.0880	0.0624	0.0087	1012781	1012845	1012978
265	5.58	0.0822	0.0566	0.0021	1012795	1012859	1012995
270	5.60	0.0903	0.0670	0.0126	1012775	1012833	1012969
275	5.62	0.0903	0.0670	0.0126	1012775	1012833	1012969
280	5.63	0.0874	0.0621	0.0084	1012782	1012846	1012979
285	5.65	0.0917	0.0692	0.0158	1012772	1012828	1012961
290	5.67	0.0961	0.0723	0.0181	1012761	1012820	1012955
295	5.69	0.0941	0.0691	0.0142	1012766	1012828	1012965
300	5.70	0.0892	0.0634	0.0094	1012778	1012842	1012977

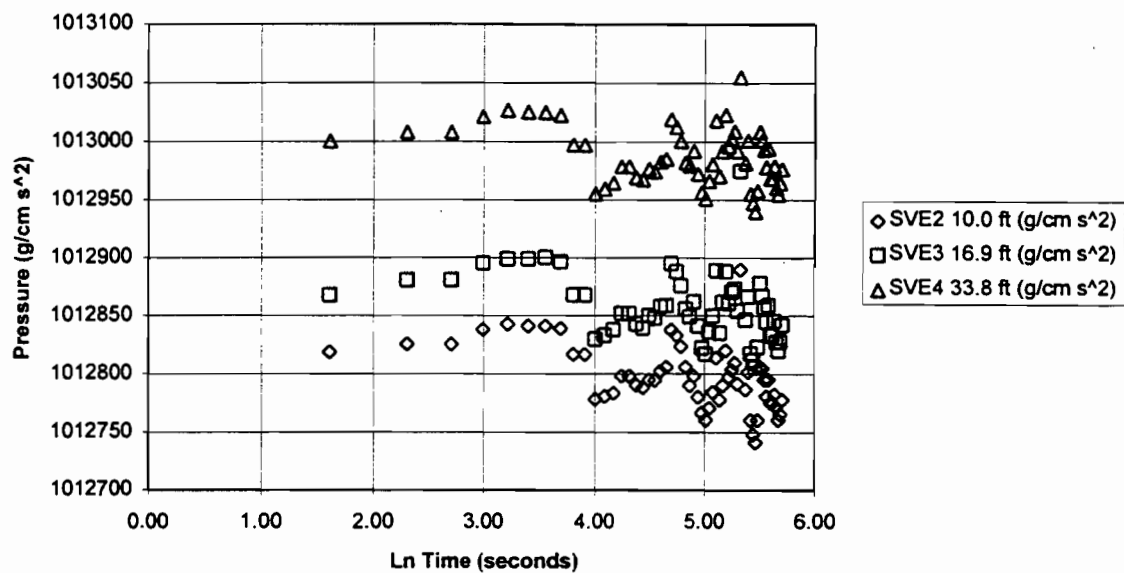
IMC Magnetics

SVE Pilot Test Data

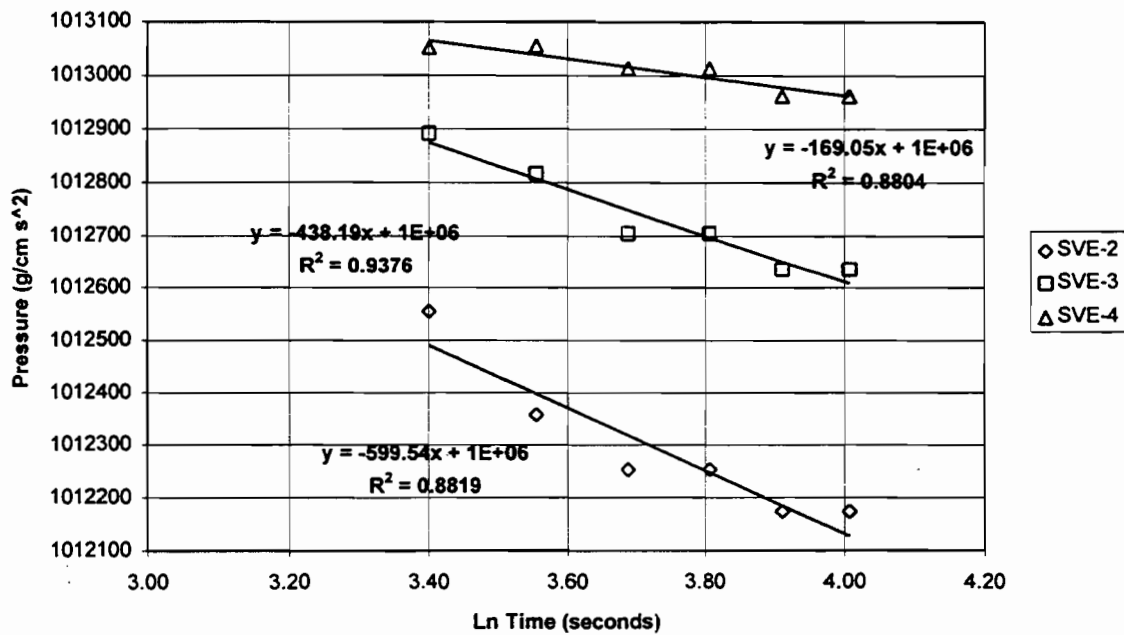
SVE Test Four

Non-Steady State Data (ln T vs P)

Ln Time vs Pressure



Ln Time vs Pressure



IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-1, Deep
Flow Rate:	41.4 CFM
Test Name:	SVE Test Five
Job No.	11531

Data Log					
Test Start: 7/16/96 12:41:00 PM					
elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
5	0.08	-0.0257	-0.0257	-0.0223	0.0177
10	0.17	-0.0254	-0.0258	-0.0220	0.0177
15	0.25	-0.0254	-0.0258	-0.0220	0.0177
20	0.33	0.0393	-0.0145	-0.0220	0.0208
25	0.42	0.1787	0.0439	-0.0208	0.0238
30	0.50	0.1787	0.0439	-0.0208	0.0238
35	0.58	0.2580	0.0737	-0.0222	0.0391
40	0.67	0.3000	0.1187	-0.0054	0.0208
45	0.75	0.3000	0.1187	-0.0054	0.0208
50	0.83	0.3318	0.1465	0.0151	0.0269
55	0.92	0.3318	0.1465	0.0151	0.0269
60	1.00	0.3274	0.1350	-0.0037	0.0269
65	1.08	0.3492	0.1597	0.0192	0.0269
70	1.17	0.3492	0.1597	0.0192	0.0269
75	1.25	0.3579	0.1671	0.0244	0.0238
80	1.33	0.3579	0.1671	0.0244	0.0238
85	1.42	0.3685	0.1774	0.0337	0.0269
90	1.50	0.3685	0.1774	0.0337	0.0269
95	1.58	0.3579	0.1631	0.0193	0.0269
100	1.67	0.3772	0.1861	0.0410	0.0238
105	1.75	0.3772	0.1861	0.0410	0.0238
110	1.83	0.3848	0.1947	0.0490	0.0238
115	1.92	0.3933	0.2023	0.0576	0.0238
120	2.00	0.3933	0.2023	0.0576	0.0238
125	2.08	0.3764	0.1854	0.0386	0.0269
130	2.17	0.3755	0.1841	0.0387	0.0299
135	2.25	0.3755	0.1841	0.0387	0.0299
140	2.33	0.3889	0.1989	0.0532	0.0269
145	2.42	0.3747	0.1812	0.0357	0.0238
150	2.50	0.3747	0.1812	0.0357	0.0238
155	2.58	0.3854	0.1950	0.0485	0.0299
160	2.67	0.3854	0.1950	0.0485	0.0299
165	2.75	0.3958	0.2063	0.0593	0.0238
170	2.83	0.3958	0.2063	0.0593	0.0238
175	2.92	0.4028	0.2168	0.0685	0.0238
180	3.00	0.4028	0.2168	0.0685	0.0238

SVE TEST FIVE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
185	3.08	0.4074	0.2198	0.0734	0.0238
190	3.17	0.3956	0.2049	0.0584	0.0208
195	3.25	0.3796	0.1848	0.0396	0.0208
200	3.33	0.4017	0.2144	0.0660	0.0238
205	3.42	0.4010	0.2122	0.0657	0.0330
210	3.50	0.4010	0.2122	0.0657	0.0330
215	3.58	0.3906	0.1971	0.0523	0.0330
220	3.67	0.3906	0.1971	0.0523	0.0330
225	3.75	0.3862	0.1959	0.0497	0.0238
230	3.83	0.3862	0.1959	0.0497	0.0238
235	3.92	0.3828	0.1907	0.0450	0.0269
240	4.00	0.3917	0.2021	0.0555	0.0208
245	4.08	0.3979	0.2069	0.0607	0.0238
250	4.17	0.4059	0.2177	0.0715	0.0238
255	4.25	0.4162	0.2301	0.0827	0.0330
260	4.33	0.4158	0.2289	0.0816	0.0269
265	4.42	0.4158	0.2289	0.0816	0.0269
270	4.50	0.3972	0.2098	0.0630	0.0360
275	4.58	0.3972	0.2098	0.0630	0.0360
280	4.67	0.4045	0.2183	0.0720	0.0177
285	4.75	0.4045	0.2183	0.0720	0.0177
290	4.83	0.4101	0.2217	0.0741	2.6453
295	4.92	0.4074	0.2198	0.0729	2.6514
300	5.00	0.4133	0.2258	0.0810	2.6422
305	5.08	0.4039	0.2136	0.0674	2.6300
310	5.17	0.4101	0.2229	0.0757	2.6575
315	5.25	0.4101	0.2229	0.0757	2.6575
320	5.33	0.4020	0.2160	0.0700	2.6239
325	5.42	0.4020	0.2160	0.0700	2.6239
330	5.50	0.3961	0.2086	0.0654	2.6453
335	5.58	0.4089	0.2226	0.0753	2.6544
340	5.67	0.4089	0.2211	0.0746	2.6483
345	5.75	0.4089	0.2211	0.0746	2.6483
350	5.83	0.4037	0.2148	0.0679	2.6239
355	5.92	0.4077	0.2192	0.0729	2.6331
360	6.00	0.4077	0.2192	0.0729	2.6331
365	6.08	0.4109	0.2237	0.0769	2.6331
370	6.17	0.4078	0.2188	0.0741	2.6361
375	6.25	0.4078	0.2188	0.0741	2.6361
380	6.33	0.4147	0.2289	0.0819	2.6636
385	6.42	0.4190	0.2331	0.0871	2.6544
390	6.50	0.4190	0.2330	0.0860	2.6483
395	6.58	0.4190	0.2330	0.0860	2.6483

SVE TEST FIVE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
400	6.67	0.4173	0.2293	0.0840	2.6392
405	6.75	0.4162	0.2305	0.0831	2.6697
410	6.83	0.4162	0.2305	0.0831	2.6697
415	6.92	0.4194	0.2330	0.0876	2.6605
420	7.00	0.4228	0.2380	0.0921	2.6758
425	7.08	0.4242	0.2391	0.0926	2.6697
430	7.17	0.4210	0.2366	0.0903	2.6575
435	7.25	0.4165	0.2292	0.0845	2.6636
440	7.33	0.4165	0.2292	0.0845	2.6636
445	7.42	0.4060	0.2183	0.0723	2.6239
450	7.50	0.4030	0.2137	0.0683	2.6178
455	7.58	0.4016	0.2130	0.0667	2.6666
460	7.67	0.3965	0.2060	0.0605	2.6147
465	7.75	0.3965	0.2060	0.0605	2.6147
470	7.83	0.3976	0.2101	0.0622	2.6575
475	7.92	0.4045	0.2180	0.0706	2.6361
480	8.00	0.4045	0.2180	0.0706	2.6361
485	8.08	0.4179	0.2299	0.0845	2.6392
490	8.17	0.4179	0.2299	0.0845	2.6392
495	8.25	0.4106	0.2223	0.0772	2.6392
500	8.33	0.4071	0.2202	0.0734	2.6544
505	8.42	0.3930	0.2031	0.0569	2.6300
510	8.50	0.3941	0.2050	0.0590	2.6178
515	8.58	0.3941	0.2050	0.0590	2.6178
520	8.67	0.3915	0.2026	0.0557	2.5964
525	8.75	0.4048	0.2185	0.0717	2.6209
530	8.83	0.4051	0.2177	0.0709	2.6300
535	8.92	0.4051	0.2177	0.0709	2.6300
540	9.00	0.4176	0.2310	0.0851	2.6422
545	9.08	0.4188	0.2328	0.0871	2.6544
550	9.17	0.4146	0.2289	0.0819	2.6666
555	9.25	0.4237	0.2383	0.0921	2.6575
560	9.33	0.4109	0.2212	0.0767	2.6544
565	9.42	0.4014	0.2128	0.0663	2.6331
570	9.50	0.4048	0.2179	0.0726	2.6422
575	9.58	0.4048	0.2179	0.0726	2.6422
580	9.67	0.4173	0.2327	0.0857	2.6422
585	9.75	0.4173	0.2327	0.0857	2.6422
590	9.83	0.4101	0.2223	0.0769	2.6331
595	9.92	0.4094	0.2229	0.0760	2.6544
600	10.00	0.4107	0.2235	0.0772	2.6422
660	11.00	0.4062	0.2202	0.0726	2.6270
720	12.00	0.4059	0.2200	0.0723	2.6270
780	13.00	0.3801	0.1864	0.0419	2.6117

SVE TEST FIVE

elapsed time (sec)	elapsed time (min)	SVE 2 10.0 ft (in WC)	SVE 3 16.9 ft (in WC)	SVE 4 33.8 ft (in WC)	extr 0.0 ft (in WC)
840	14.00	0.4074	0.2238	0.0758	2.6056
900	15.00	0.4228	0.2377	0.0932	2.6514
960	16.00	0.4301	0.2475	0.1001	2.6605
1020	17.00	0.4332	0.2490	0.1031	2.6727
1080	18.00	0.4287	0.2531	0.1130	2.2729
1140	19.00	0.4408	0.2588	0.1138	2.6880
1200	20.00	0.4046	0.2112	0.0676	2.6147
1260	21.00	0.4216	0.2353	0.0903	2.6544
1320	22.00	0.4113	0.2218	0.0758	2.6392
1380	23.00	0.4004	0.2096	0.0660	2.6117
1440	24.00	0.4261	0.2401	0.0950	2.6575
1500	25.00	0.4055	0.2205	0.0723	2.6544
1560	26.00	0.3709	0.1779	0.0303	2.6178
1620	27.00	0.3953	0.2044	0.0587	2.6239
1680	28.00	0.3799	0.1860	0.0390	2.6086
1740	29.00	0.4086	0.2218	0.0779	2.6361
1800	30.00	0.4207	0.2342	0.0869	2.6117
1860	31.00	0.4135	0.2290	0.0868	2.6392
1920	32.00	0.4155	0.2282	0.0815	2.6422
1980	33.00	0.4512	0.2675	0.1211	2.6819
2040	34.00	0.4297	0.2408	0.0967	2.6544
2100	35.00	0.4181	0.2299	0.0850	2.6514
2160	36.00	0.4306	0.2440	0.0985	2.6483
2220	37.00	0.4290	0.2433	0.0973	2.6788
2280	38.00	0.4469	0.2629	0.1170	2.6819
2340	39.00	0.4670	0.2835	0.1411	2.6727
2400	40.00	0.4467	0.2644	0.1210	2.6453
2460	41.00	0.4086	0.2218	0.0773	2.6361
2520	42.00	0.4164	0.2308	0.0851	2.6422
2580	43.00	0.4663	0.2839	0.1420	2.7155
2640	44.00	0.4507	0.2714	0.1233	2.6300
2700	45.00	0.4428	0.2600	0.1138	2.6788
2760	46.00	0.4213	0.2340	0.0891	2.6270
2820	47.00	0.4504	0.2672	0.1216	2.6971

MAXIMUM	0.4670	0.2839	0.1420	2.7155
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Measuring Point	Distance (feet)	Vacuum (in. H2O)	Ln Vacuum
MP-1	10	0.4670	-0.76133823
MP-2	16.9	0.2839	-1.25900642
MP-3	33.8	0.1420	-1.95172402

IMC Magnetics

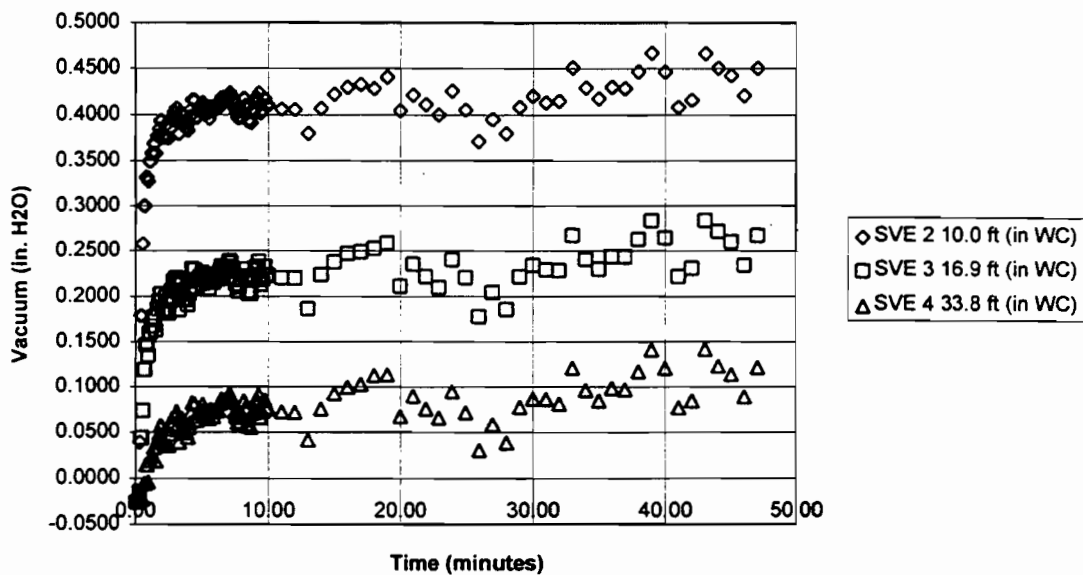
SVE Pilot Test Data

SVE Test Five

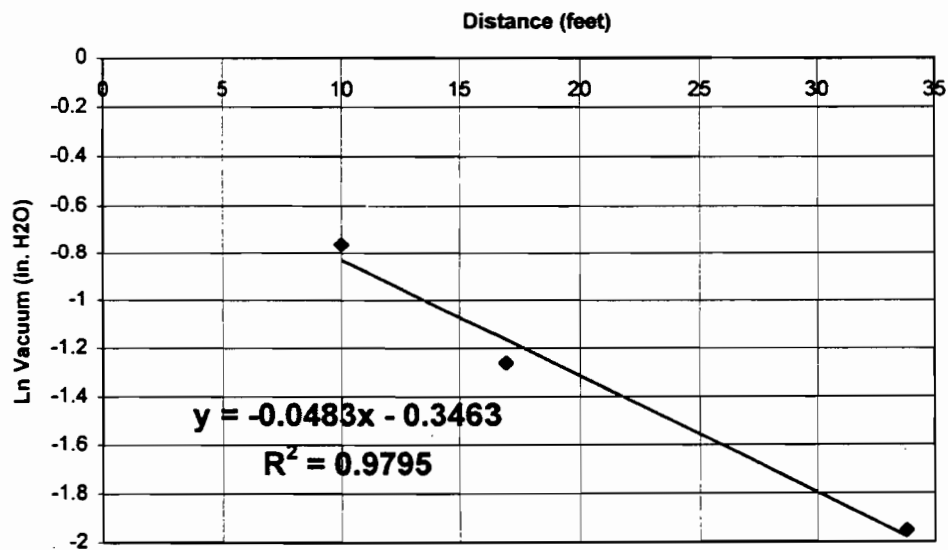
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetix ROI, System Design Specifications
SVE Test Five

Steady-State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.0483		-0.3463	40.44928	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	2.71	in. H2O	g/cm s ²
Atmospheric Pressure =	1	ATM	g/cm s ²
Well Radius =	1	inches	cm
Radius of Influence =	40	feet	cm
Extraction Rate =	41.4	CFM	cm ³ /s

Air Permeability =	1.12E-06 cm ²	or	111.9722 Darcys
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Non-Steady State Equations

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Extraction Rate =	43.6	CFM	cm ³ /s
Slope of Ln (T) vs P, well 1 =	113.06	g/cm s ²	
Slope of Ln (T) vs P, well 2 =	169.8	g/cm s ²	
Slope of Ln (T) vs P, well 3 =	186.17	g/cm s ²	

Air Permeability, Well 1	5.7E-06 cm ²	or	570.1974 Darcys
Air Permeability, Well 2	3.8E-06 cm ²	or	379.6615 Darcys
Air Permeability, Well 3	3.46E-06 cm ²	or	346.2777 Darcys

IMC Magnetics

SVE Pilot Test Data

SVE Test Five

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (in WC)	SVE3 16.9 ft (in WC)	SVE4 33.8 ft (in WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
5	1.61	-0.0257	-0.0257	-0.0223	1013064	1013064	1013056
10	2.30	-0.0254	-0.0258	-0.0220	1013063	1013064	1013055
15	2.71	-0.0254	-0.0258	-0.0220	1013063	1013064	1013055
20	3.00	0.0393	-0.0145	-0.0220	1012902	1013036	1013055
25	3.22	0.1787	0.0439	-0.0208	1012555	1012891	1013052
30	3.40	0.1787	0.0439	-0.0208	1012555	1012891	1013052
35	3.56	0.2580	0.0737	-0.0222	1012358	1012817	1013055
40	3.69	0.3000	0.1187	-0.0054	1012253	1012705	1013013
45	3.81	0.3000	0.1187	-0.0054	1012253	1012705	1013013
50	3.91	0.3318	0.1465	0.0151	1012174	1012636	1012962
55	4.01	0.3318	0.1465	0.0151	1012174	1012636	1012962
60	4.09	0.3274	0.1350	-0.0037	1012185	1012664	1013009
65	4.17	0.3492	0.1597	0.0192	1012131	1012602	1012952
70	4.25	0.3492	0.1597	0.0192	1012131	1012602	1012952
75	4.32	0.3579	0.1671	0.0244	1012109	1012584	1012939
80	4.38	0.3579	0.1671	0.0244	1012109	1012584	1012939
85	4.44	0.3685	0.1774	0.0337	1012083	1012558	1012916
90	4.50	0.3685	0.1774	0.0337	1012083	1012558	1012916
95	4.55	0.3579	0.1631	0.0193	1012109	1012594	1012952
100	4.61	0.3772	0.1861	0.0410	1012061	1012537	1012898
105	4.65	0.3772	0.1861	0.0410	1012061	1012537	1012898
110	4.70	0.3848	0.1947	0.0490	1012042	1012516	1012878
115	4.74	0.3933	0.2023	0.0576	1012021	1012497	1012857
120	4.79	0.3933	0.2023	0.0576	1012021	1012497	1012857
125	4.83	0.3764	0.1854	0.0386	1012063	1012539	1012904
130	4.87	0.3755	0.1841	0.0387	1012065	1012542	1012904
135	4.91	0.3755	0.1841	0.0387	1012065	1012542	1012904
140	4.94	0.3889	0.1989	0.0532	1012032	1012505	1012868
145	4.98	0.3747	0.1812	0.0357	1012067	1012549	1012911
150	5.01	0.3747	0.1812	0.0357	1012067	1012549	1012911
155	5.04	0.3854	0.1950	0.0485	1012041	1012515	1012879
160	5.08	0.3854	0.1950	0.0485	1012041	1012515	1012879
165	5.11	0.3958	0.2063	0.0593	1012015	1012487	1012852
170	5.14	0.3958	0.2063	0.0593	1012015	1012487	1012852
175	5.16	0.4028	0.2168	0.0685	1011998	1012460	1012830
180	5.19	0.4028	0.2168	0.0685	1011998	1012460	1012830
185	5.22	0.4074	0.2198	0.0734	1011986	1012453	1012817
190	5.25	0.3956	0.2049	0.0584	1012015	1012490	1012855
195	5.27	0.3796	0.1848	0.0396	1012055	1012540	1012901
200	5.30	0.4017	0.2144	0.0660	1012000	1012467	1012836
205	5.32	0.4010	0.2122	0.0657	1012002	1012472	1012836

IMC Magnetics

SVE Pilot Test Data

SVE Test Five

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE2 10.0 ft (ln WC)	SVE3 16.9 ft (ln WC)	SVE4 33.8 ft (ln WC)	SVE2 10.0 ft (g/cm s ²)	SVE3 16.9 ft (g/cm s ²)	SVE4 33.8 ft (g/cm s ²)
215	5.37	0.3906	0.1971	0.0523	1012028	1012509	1012870
220	5.39	0.3906	0.1971	0.0523	1012028	1012509	1012870
225	5.42	0.3862	0.1959	0.0497	1012039	1012512	1012876
230	5.44	0.3862	0.1959	0.0497	1012039	1012512	1012876
235	5.46	0.3828	0.1907	0.0450	1012047	1012525	1012888
240	5.48	0.3917	0.2021	0.0555	1012025	1012497	1012862
245	5.50	0.3979	0.2069	0.0607	1012010	1012485	1012849
250	5.52	0.4059	0.2177	0.0715	1011990	1012458	1012822
255	5.54	0.4162	0.2301	0.0827	1011964	1012427	1012794
260	5.56	0.4158	0.2289	0.0816	1011965	1012430	1012797
265	5.58	0.4158	0.2289	0.0816	1011965	1012430	1012797
270	5.60	0.3972	0.2098	0.0630	1012012	1012478	1012843
275	5.62	0.3972	0.2098	0.0630	1012012	1012478	1012843
280	5.63	0.4045	0.2183	0.0720	1011993	1012457	1012821
285	5.65	0.4045	0.2183	0.0720	1011993	1012457	1012821
290	5.67	0.4101	0.2217	0.0741	1011979	1012448	1012816
295	5.69	0.4074	0.2198	0.0729	1011986	1012453	1012819
300	5.70	0.4133	0.2258	0.0810	1011971	1012438	1012798

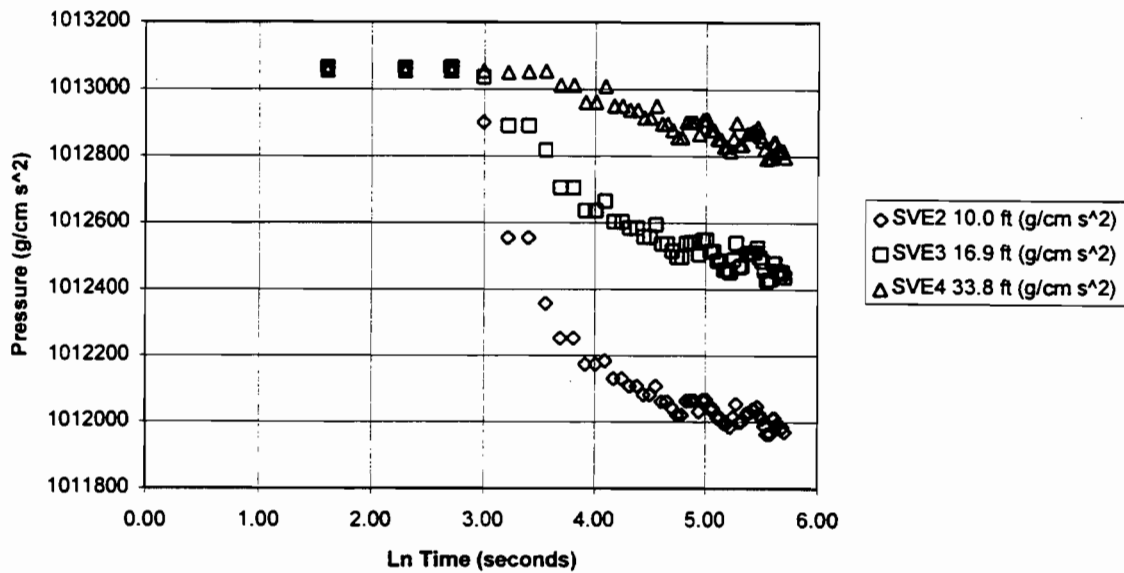
IMC Magnetics

SVE Pilot Test Data

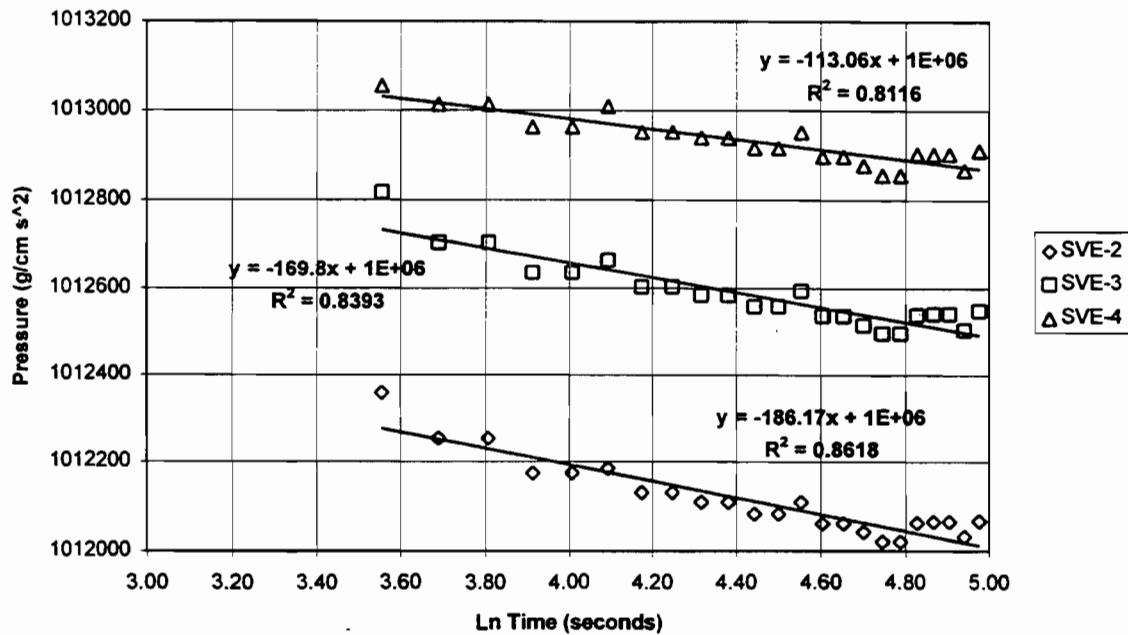
SVE Test Five

Non-Steady State Data (ln T vs P)

Ln Time vs Pressure



Ln Time vs Pressure



IMC Magnetics**SVE Pilot Test Data**

Extraction Point:	SVE-1, Deep
Flow Rate:	40 CFM
Test Name:	SVE Test Seven
Job No.	11531

Data Log									
Test Start:		7/16/96 14:20:30 PM							
elapsed time (sec)	elapsed time (min)	SVE 2s 10.0 ft (in WC)	SVE 2i 10.0 ft (in WC)	SVE 2d 10.0 ft (in WC)	SVE 3s 16.9 ft (in WC)	SVE 3i 16.9 ft (in WC)	SVE 3d 16.9 ft (in WC)	SVE 4s 33.8 ft (in WC)	extr 0.0 ft (in WC)
5	0.08	0.0725	0.0890	0.4572	0.0435	0.1202	0.2015	0.1276	2.8674
10	0.17	0.0768	0.0859	0.4572	0.0430	0.1170	0.2005	0.1367	2.8857
15	0.25	0.0682	0.0841	0.4419	0.0488	0.1230	0.2035	0.1154	2.8369
20	0.33	0.0463	0.0817	0.4236	0.0232	0.0966	0.1783	0.1031	2.8369
25	0.42	0.0322	0.0786	0.4053	0.0151	0.0844	0.1669	0.0757	2.8247
30	0.50	0.0322	0.0786	0.4053	0.0151	0.0844	0.1669	0.0757	2.8247
35	0.58	0.0786	0.0902	0.4449	0.0412	0.1094	0.1953	0.1276	2.8430
40	0.67	0.0823	0.1104	0.4572	0.0442	0.1143	0.1977	0.1398	2.8613
45	0.75	0.0438	0.1104	0.4297	0.0360	0.1077	0.1863	0.1001	2.8308
50	0.83	0.0438	0.1104	0.4297	0.0360	0.1077	0.1863	0.1001	2.8308
55	0.92	0.1232	0.1543	0.4694	0.0752	0.1471	0.2342	0.1459	2.9041
60	1.00	0.0865	0.1604	0.4511	0.0599	0.1312	0.2110	0.1306	2.8735
65	1.08	0.0762	0.1744	0.4480	0.0477	0.1199	0.2018	0.1337	2.8613
70	1.17	0.0792	0.1921	0.4511	0.0514	0.1262	0.2072	0.1215	2.8613
75	1.25	0.0774	0.2019	0.4602	0.0526	0.1292	0.2098	0.1306	2.9163
80	1.33	0.0969	0.2068	0.4724	0.0628	0.1391	0.2217	0.1489	2.8674
85	1.42	0.0969	0.2068	0.4724	0.0628	0.1391	0.2217	0.1489	2.8674
90	1.50	0.0847	0.2117	0.4602	0.0563	0.1364	0.2168	0.1428	2.8552
95	1.58	0.0774	0.2159	0.4602	0.0471	0.1262	0.2087	0.1245	2.8613
100	1.67	0.0865	0.2159	0.4633	0.0555	0.1333	0.2163	0.1398	2.8735
105	1.75	0.0811	0.2092	0.4541	0.0592	0.1382	0.2197	0.1215	2.8613
110	1.83	0.0908	0.2123	0.4694	0.0590	0.1388	0.2214	0.1428	2.8735
115	1.92	0.1036	0.2129	0.4846	0.0702	0.1509	0.2327	0.1581	2.8735
120	2.00	0.0774	0.2050	0.4572	0.0537	0.1350	0.2157	0.1367	2.8735
125	2.08	0.0774	0.2050	0.4572	0.0537	0.1350	0.2157	0.1367	2.8735
130	2.17	0.0975	0.2050	0.4846	0.0653	0.1443	0.2282	0.1520	2.8613
135	2.25	0.0908	0.2050	0.4694	0.0662	0.1472	0.2299	0.1398	2.8491
140	2.33	0.0933	0.2037	0.4755	0.0689	0.1513	0.2322	0.1428	2.9102
145	2.42	0.1219	0.2037	0.5151	0.0836	0.1660	0.2505	0.1672	2.9102
150	2.50	0.1158	0.2007	0.4938	0.0914	0.1767	0.2565	0.1581	2.9102
155	2.58	0.1158	0.2007	0.4938	0.0914	0.1767	0.2565	0.1581	2.9102
160	2.67	0.0914	0.1964	0.4694	0.0668	0.1515	0.2330	0.1398	2.8796
165	2.75	0.0914	0.1964	0.4694	0.0668	0.1515	0.2330	0.1398	2.8796
170	2.83	0.1049	0.1989	0.5060	0.0805	0.1652	0.2461	0.1581	2.8979
175	2.92	0.1049	0.1989	0.5060	0.0805	0.1652	0.2461	0.1581	2.8979
180	3.00	0.0994	0.1970	0.4968	0.0755	0.1600	0.2400	0.1520	2.8674

SVE TEST SEVEN

elapsed time (sec)	elapsed time (min)	SVE 2s 10.0 ft (in WC)	SVE 2i 10.0 ft (in WC)	SVE 2d 10.0 ft (in WC)	SVE 3s 16.9 ft (in WC)	SVE 3i 16.9 ft (in WC)	SVE 3d 16.9 ft (in WC)	SVE 4s 33.8 ft (in WC)	extr 0.0 ft (in WC)
185	3.08	0.0975	0.4058	0.4877	0.0671	0.1518	0.2339	0.1459	2.8857
190	3.17	0.0975	0.4058	0.4877	0.0671	0.1518	0.2339	0.1459	2.8857
195	3.25	0.0890	-0.0294	0.4785	0.0615	0.1452	0.2278	0.1367	2.8857
200	3.33	0.0890	0.3972	0.4724	0.0628	0.1461	0.2285	0.1398	2.8979
205	3.42	0.0939	0.3997	0.4785	0.0647	0.1474	0.2302	0.1489	2.8918
210	3.50	0.1012	0.4021	0.4968	0.0683	0.1506	0.2347	0.1550	2.8735
215	3.58	0.1128	0.4125	0.4968	0.0804	0.1632	0.2462	0.1703	2.9102
220	3.67	0.0975	0.4094	0.4724	0.0708	0.1535	0.2360	0.1459	2.8552
225	3.75	0.0975	0.4094	0.4724	0.0708	0.1535	0.2360	0.1459	2.8552
230	3.83	0.1091	0.4222	0.5029	0.0808	0.1631	0.2450	0.1581	2.8796
235	3.92	0.0981	0.4338	0.4846	0.0718	0.1542	0.2351	0.1489	2.9102
240	4.00	0.1030	0.4387	0.4968	0.0697	0.1542	0.2353	0.1581	2.8796
245	4.08	0.1067	0.4442	0.4907	0.0740	0.1571	0.2395	0.1550	2.8613
250	4.17	0.1213	0.4528	0.4938	0.0773	0.1631	0.2475	0.1459	2.9163
255	4.25	0.1091	0.4460	0.4999	0.0821	0.1672	0.2487	0.1489	2.8674
260	4.33	0.1091	0.4460	0.4999	0.0821	0.1672	0.2487	0.1489	2.8674
265	4.42	0.0841	0.4534	0.4724	0.0702	0.1542	0.2350	0.1306	2.8735
270	4.50	0.1097	0.4814	0.4938	0.0886	0.1747	0.2551	0.1642	2.8857
275	4.58	0.1189	0.4918	0.4999	0.0801	0.1674	0.2517	0.1703	2.9407
280	4.67	0.1104	0.4930	0.4968	0.0781	0.1626	0.2453	0.1550	2.9102
285	4.75	0.0811	0.5010	0.4694	0.0651	0.1466	0.2308	0.1306	2.9163
290	4.83	0.0811	0.5010	0.4694	0.0651	0.1466	0.2308	0.1306	2.9163
295	4.92	0.1104	0.5132	0.5029	0.0735	0.1558	0.2400	0.1581	2.8796
300	5.00	0.1104	0.5132	0.5029	0.0735	0.1558	0.2400	0.1581	2.8796
305	5.08	0.1079	0.5339	0.4816	0.0726	0.1585	0.2417	0.1581	2.9163
310	5.17	0.0896	0.5376	0.4816	0.0659	0.1509	0.2340	0.1459	2.9041
315	5.25	0.0896	0.5376	0.4816	0.0659	0.1509	0.2340	0.1459	2.9041
320	5.33	0.1262	0.5522	0.5273	0.0886	0.1742	0.2569	0.1886	2.9651
325	5.42	0.1232	0.5504	0.5151	0.0946	0.1815	0.2633	0.1794	2.9346
330	5.50	0.0988	0.5449	0.4785	0.0798	0.1678	0.2488	0.1367	2.8796
335	5.58	0.0798	0.5388	0.4541	0.0589	0.1445	0.2272	0.1184	2.8308
340	5.67	0.0933	0.5492	0.4999	0.0653	0.1486	0.2318	0.1550	2.9102
345	5.75	0.1061	0.5529	0.4968	0.0741	0.1577	0.2414	0.1520	2.9102
350	5.83	0.1006	0.5553	0.4846	0.0749	0.1584	0.2409	0.1489	2.9285
355	5.92	0.0914	0.5535	0.4755	0.0711	0.1536	0.2363	0.1428	2.8979
360	6.00	0.1152	0.5620	0.4877	0.0837	0.1687	0.2525	0.1672	2.8918
365	6.08	0.1036	0.5602	0.4877	0.0761	0.1599	0.2427	0.1520	2.8796
370	6.17	0.0988	0.5632	0.4877	0.0721	0.1562	0.2394	0.1520	2.9224
375	6.25	0.1000	0.5632	0.4846	0.0712	0.1545	0.2382	0.1428	2.8857
380	6.33	0.1140	0.5706	0.5029	0.0753	0.1581	0.2421	0.1703	2.9102
385	6.42	0.1140	0.5706	0.5029	0.0753	0.1581	0.2421	0.1703	2.9102
390	6.50	0.1268	0.5779	0.5151	0.0892	0.1733	0.2574	0.1733	2.9346
395	6.58	0.0994	0.5718	0.4877	0.0711	0.1570	0.2395	0.1489	2.9102

SVE TEST SEVEN

elapsed time (sec)	elapsed time (min)	SVE 2s 10.0 ft (in WC)	SVE 2i 10.0 ft (in WC)	SVE 2d 10.0 ft (in WC)	SVE 3s 16.9 ft (in WC)	SVE 3i 16.9 ft (in WC)	SVE 3d 16.9 ft (in WC)	SVE 4s 33.8 ft (in WC)	extr 0.0 ft (in WC)
400	6.67	0.0994	0.5718	0.4877	0.0711	0.1570	0.2395	0.1489	2.9102
405	6.75	0.0927	0.5693	0.4816	0.0644	0.1490	0.2325	0.1489	2.8979
410	6.83	0.1317	0.5718	0.5212	0.0898	0.1736	0.2585	0.1794	2.9346
415	6.92	0.1018	0.5712	0.4846	0.0749	0.1599	0.2426	0.1550	2.8735
420	7.00	0.1018	0.5712	0.4846	0.0749	0.1599	0.2426	0.1550	2.8735
425	7.08	0.0804	0.5724	0.4572	0.0691	0.1533	0.2347	0.1276	2.8796
430	7.17	0.0707	0.5754	0.4602	0.0457	0.1262	0.2110	0.1215	2.8796
435	7.25	0.0945	0.5852	0.4724	0.0619	0.1413	0.2266	0.1428	2.8796
440	7.33	0.0743	0.5876	0.4572	0.0544	0.1347	0.2173	0.1337	2.8552
445	7.42	0.0743	0.5876	0.4572	0.0544	0.1347	0.2173	0.1337	2.8552
450	7.50	0.0957	0.5876	0.4816	0.0679	0.1494	0.2327	0.1489	2.8979
455	7.58	0.0981	0.5858	0.4816	0.0696	0.1515	0.2340	0.1459	2.9163
460	7.67	0.1012	0.5864	0.4816	0.0749	0.1570	0.2391	0.1489	2.8735
465	7.75	0.0884	0.5858	0.4724	0.0615	0.1446	0.2260	0.1489	2.8735
470	7.83	0.0914	0.5815	0.4724	0.0570	0.1375	0.2221	0.1428	2.8308
475	7.92	0.0914	0.5815	0.4724	0.0570	0.1375	0.2221	0.1428	2.8308
480	8.00	0.0890	0.5876	0.4663	0.0717	0.1538	0.2342	0.1337	2.8735
485	8.08	0.0896	0.5925	0.4724	0.0583	0.1390	0.2215	0.1489	2.8857
490	8.17	0.1439	0.6066	0.5334	0.0932	0.1719	0.2575	0.2039	2.9773
495	8.25	0.0975	0.6029	0.4938	0.0763	0.1588	0.2379	0.1672	2.9285
500	8.33	0.0756	0.5950	0.4633	0.0534	0.1344	0.2151	0.1367	2.8735
505	8.42	0.0725	0.5956	0.4602	0.0459	0.1252	0.2078	0.1245	2.8552
510	8.50	0.0737	0.5992	0.4541	0.0578	0.1359	0.2173	0.1245	2.8308
515	8.58	0.0927	0.6102	0.4755	0.0573	0.1353	0.2186	0.1459	2.8857
520	8.67	0.0920	0.6102	0.4755	0.0581	0.1347	0.2182	0.1428	2.8735
525	8.75	0.0688	0.6035	0.4388	0.0529	0.1310	0.2118	0.1123	2.8613
530	8.83	0.0676	0.6072	0.4480	0.0361	0.1127	0.1979	0.1184	2.8735
535	8.92	0.0817	0.6096	0.4663	0.0459	0.1225	0.2069	0.1306	2.8491
540	9.00	0.0762	0.6066	0.4572	0.0505	0.1265	0.2087	0.1337	2.8735
545	9.08	0.1183	0.6145	0.4846	0.0720	0.1457	0.2318	0.1611	2.8918
550	9.17	0.1183	0.6145	0.4846	0.0720	0.1457	0.2318	0.1611	2.8918
555	9.25	0.0951	0.6182	0.4785	0.0717	0.1504	0.2302	0.1428	2.8674
560	9.33	0.0951	0.6206	0.4785	0.0590	0.1379	0.2220	0.1581	2.9041
565	9.42	0.0951	0.6206	0.4785	0.0590	0.1379	0.2220	0.1581	2.9041
570	9.50	0.0786	0.6151	0.4541	0.0547	0.1355	0.2177	0.1215	2.8308
575	9.58	0.0878	0.6200	0.4724	0.0573	0.1359	0.2203	0.1428	2.8613
580	9.67	0.0701	0.6188	0.4572	0.0456	0.1300	0.2137	0.1154	2.8552
585	9.75	0.0591	0.6298	0.4449	0.0500	0.1346	0.2145	0.1031	2.8552
590	9.83	0.0707	0.6249	0.4449	0.0488	0.1272	0.2099	0.1184	2.8308
595	9.92	0.0859	0.6414	0.4633	0.0561	0.1318	0.2169	0.1215	2.8674
600	10.00	0.0707	0.6450	0.4511	0.0433	0.1222	0.2046	0.1428	2.8674
660	11.00	0.0774	0.6603	0.4602	0.0474	0.1249	0.2090	0.1154	2.8674
720	12.00	0.0792	0.6591	0.4572	0.0508	0.1278	0.2095	0.1031	2.8491
780	13.00	0.0853	0.6633	0.4572	0.0662	0.1446	0.2255	0.1184	2.8491

SVE TEST SEVEN

elapsed time (sec)	elapsed time (min)	SVE 2s 10.0 ft (in WC)	SVE 2i 10.0 ft (in WC)	SVE 2d 10.0 ft (in WC)	SVE 3s 16.9 ft (in WC)	SVE 3i 16.9 ft (in WC)	SVE 3d 16.9 ft (in WC)	SVE 4i 33.8 ft (in WC)	extr 0.0 ft (in WC)
840	14.00	0.0621	0.6688	0.4358	0.0419	0.1179	0.2026	0.1276	2.8552
900	15.00	0.0725	0.6731	0.4511	0.0453	0.1216	0.2066	0.1520	2.8430
960	16.00	0.0835	0.6676	0.4724	0.0612	0.1408	0.2237	0.1611	2.8796
1020	17.00	0.0902	0.6761	0.4724	0.0618	0.1422	0.2250	0.1001	2.8857
1080	18.00	0.0829	0.6804	0.4602	0.0573	0.1368	0.2203	0.1031	2.8979
1140	19.00	0.0957	0.7030	0.4816	0.0619	0.1411	0.2266	0.1001	2.8918
1200	20.00	0.0725	0.6993	0.4449	0.0432	0.1181	0.2046	0.1062	2.8552
1260	21.00	0.0756	0.6884	0.4511	0.0529	0.1303	0.2136	0.1031	2.8918
1320	22.00	0.0768	0.6792	0.4541	0.0451	0.1208	0.2047	0.1031	2.8735
1380	23.00	0.0664	0.6890	0.4419	0.0425	0.1164	0.2017	0.1001	2.8247
1440	24.00	0.0701	0.7170	0.4541	0.0486	0.1283	0.2084	0.1031	2.8552
1500	25.00	0.0872	0.7347	0.4694	0.0546	0.1355	0.0784	0.1672	2.8857
1560	26.00	0.1158	0.7317	0.5090	0.0769	0.1567	0.2417	0.1947	2.9041
1620	27.00	0.0646	0.7500	0.0696	0.0424	0.1198	0.2069	0.5243	2.8796
1680	28.00	0.1128	0.7683	0.4999	0.0842	0.1689	0.2549	0.1917	2.9285
1740	29.00	0.1348	0.7598	0.5334	0.0952	0.1812	0.2662	0.2313	2.9285
1800	30.00	0.0890	0.7469	0.4816	0.0636	0.1497	0.2353	0.1733	2.9102
1860	31.00	0.0988	0.7634	0.4816	0.0660	0.1477	0.2342	0.1794	2.8857
1920	32.00	0.0798	0.7726	0.4602	0.0528	0.1294	0.2147	0.1581	2.9102
1980	33.00	0.0780	0.7677	0.4541	0.0480	0.1243	0.2101	0.1489	2.8613
2040	34.00	0.0914	0.7689	0.4663	0.0636	0.1416	0.2258	0.1672	2.8735
2100	35.00	0.0927	0.7762	0.4663	0.0616	0.1436	0.2276	0.0879	2.8918
2160	36.00	0.0927	0.7848	0.4816	0.0660	0.1468	0.2334	0.0970	2.8857
2220	37.00	0.0841	0.8000	0.4877	0.0532	0.1394	0.2226	0.2069	2.9529
2280	38.00	0.1421	0.8165	0.5304	0.1082	0.1951	0.2787	0.2374	2.9163
2340	39.00	0.1232	0.8300	0.5243	0.0967	0.1881	0.2729	0.2191	2.9590
2400	40.00	0.1451	0.8507	0.5334	0.1075	0.1954	0.2821	0.2435	2.9346
2460	41.00	0.1445	0.8611	0.5365	0.1106	0.2002	0.2876	0.2527	2.9834
2520	42.00	0.1219	0.8593	0.5212	0.0866	0.1753	0.2644	0.2252	2.9346
2580	43.00	0.1305	0.8721	0.5243	0.0988	0.1893	0.2752	0.2344	2.9224
2640	44.00	0.1195	0.9215	0.5090	0.0927	0.1802	0.2658	0.2222	2.9224
2700	45.00	0.1122	0.9319	0.5029	0.0789	0.1635	0.2510	0.2191	2.8918
2760	46.00	0.1238	0.9490	0.5151	0.0732	0.1483	0.2398	0.2405	2.9407

MAXIMUM	0.1451	0.9490	0.5365	0.1106	0.2002	0.2876	0.5243	2.9834
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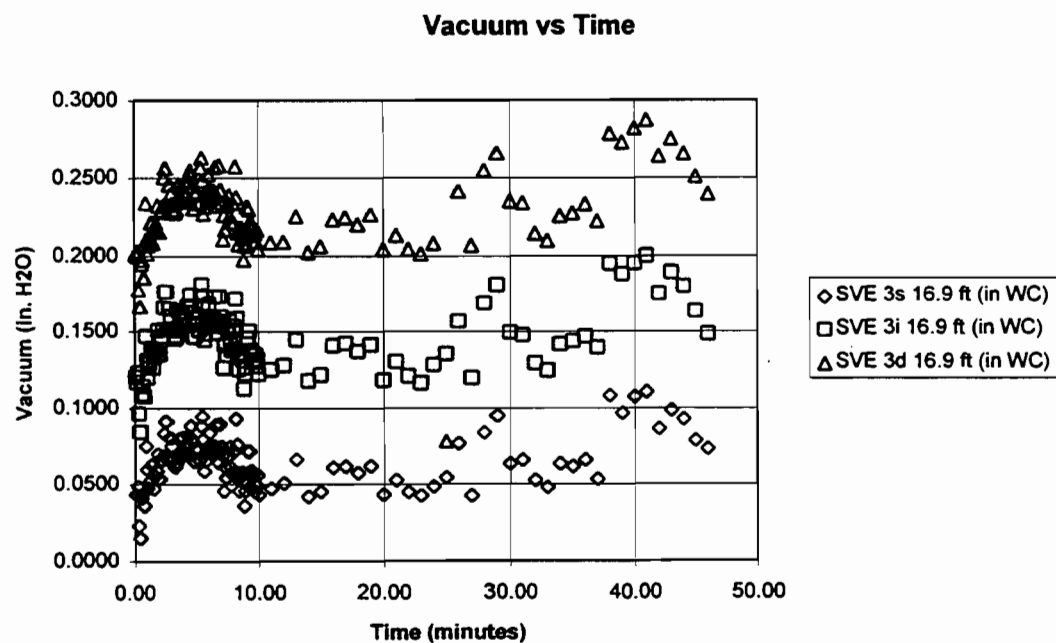
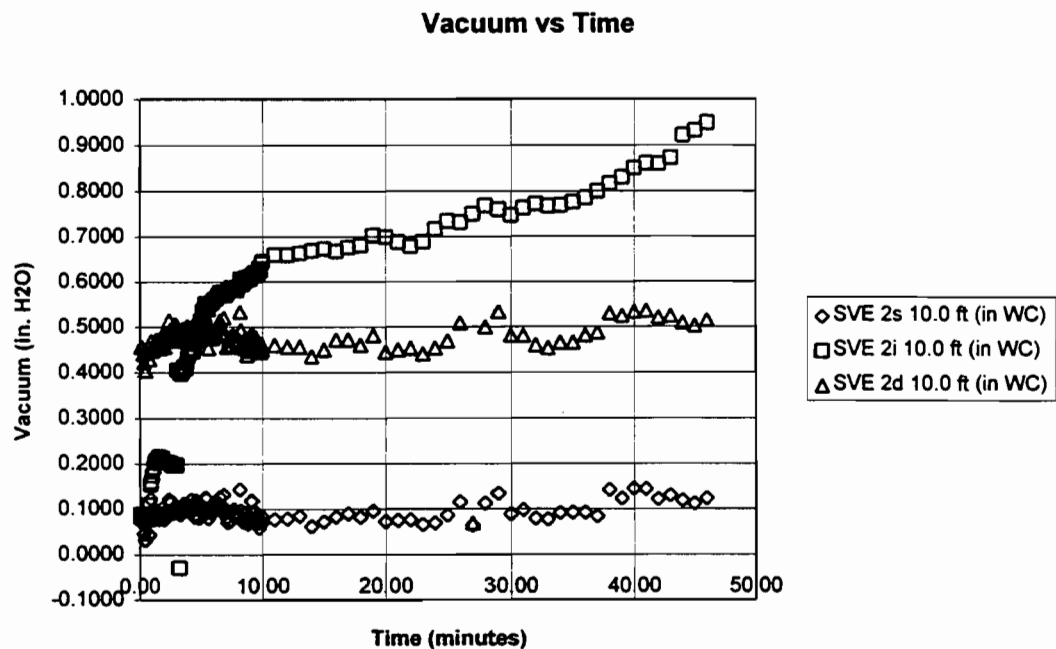
Measuring Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
SVE-2s	10	0.1451	-1.93004271
SVE-3s	16.9	0.1106	-2.20187136
SVE-4s	33.8	0.5243	-0.6457065
SVE-2i	10	0.9490	-0.05237282
SVE-3i	16.9	0.2002	-1.60861325
SVE-2d	10	0.5365	-0.62269058
SVE-3d	16.9	0.2876	-1.24619161

IMC Magnetics

SVE Pilot Test Data

SVE Test Seven

Vacuum vs Time

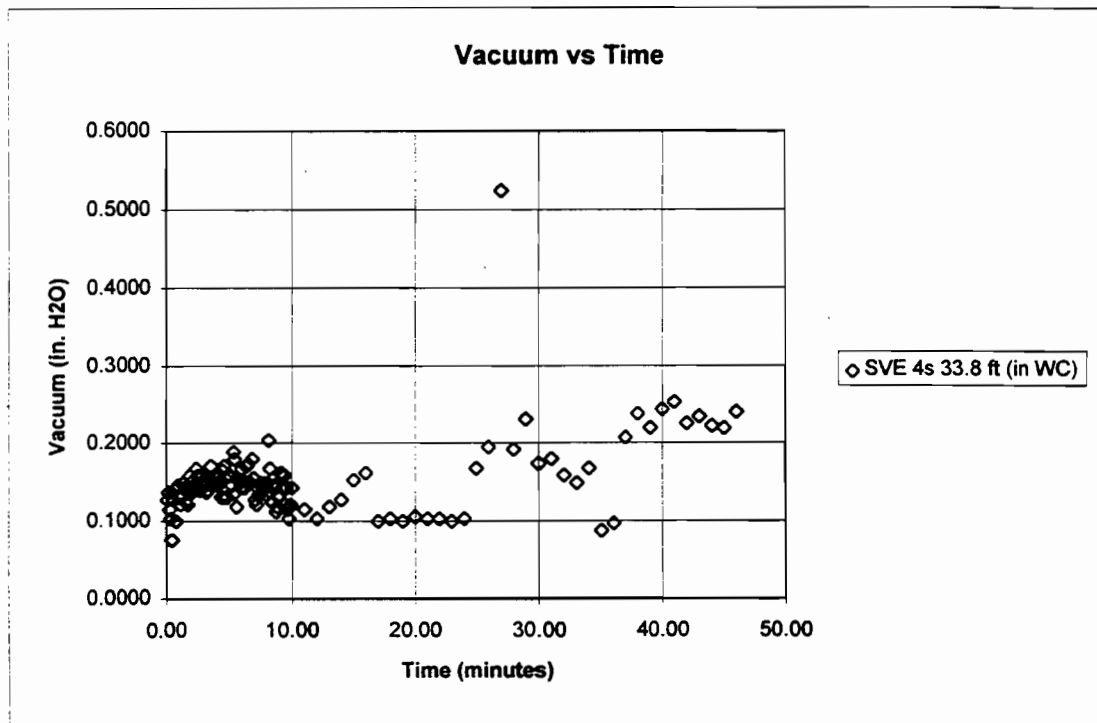


IMC Magnetics

SVE Pilot Test Data

SVE Test Seven

Vacuum vs Time



IMC Magnetics**SVE Pilot Test Data**

Extraction Point:	SVE-4, Shallow
Flow Rate:	43.6 CFM
Test Name:	Aux SVE Test One
Job No.	11531

Data Log					
Test Start: 7/17/96 7:31:00 AM					
elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
5	0.08	0.0024	0.0128	0.0049	0.0011
10	0.17	0.0023	0.0125	0.0053	0.2983
15	0.25	0.0023	0.0125	0.0053	0.2983
20	0.33	0.0000	0.0123	0.0178	1.3512
25	0.42	0.0065	0.0273	0.0586	1.4183
30	0.50	0.0065	0.0273	0.0586	1.4183
35	0.58	0.0105	0.0346	0.0709	1.4348
40	0.67	0.0155	0.0404	0.0766	1.4391
45	0.75	0.0155	0.0404	0.0766	1.4391
50	0.83	0.0195	0.0457	0.0813	1.4458
55	0.92	0.0219	0.0479	0.0844	1.4464
60	1.00	0.0209	0.0473	0.0837	1.4391
65	1.08	0.0248	0.0515	0.0876	1.4501
70	1.17	0.0259	0.0534	0.0889	1.4476
75	1.25	0.0259	0.0534	0.0889	1.4476
80	1.33	0.0261	0.0532	0.0889	1.4464
85	1.42	0.0259	0.0532	0.0892	1.4501
90	1.50	0.0261	0.0538	0.0894	1.4482
95	1.58	0.0261	0.0538	0.0894	1.4482
100	1.67	0.0277	0.0552	0.0912	1.4489
105	1.75	0.0276	0.0560	0.0915	1.4495
110	1.83	0.0276	0.0560	0.0915	1.4495
115	1.92	0.0277	0.0563	0.0918	1.4489
120	2.00	0.0271	0.0555	0.0911	1.4495
125	2.08	0.0268	0.0551	0.0914	1.4482
130	2.17	0.0268	0.0551	0.0914	1.4482
135	2.25	0.0277	0.0557	0.0915	1.4501
140	2.33	0.0284	0.0567	0.0924	1.4507
145	2.42	0.0284	0.0567	0.0924	1.4507
150	2.50	0.0282	0.0558	0.0920	1.4482
155	2.58	0.0271	0.0554	0.0912	1.4470
160	2.67	0.0271	0.0554	0.0912	1.4470
165	2.75	0.0271	0.0555	0.0917	1.4464
170	2.83	0.0280	0.0569	0.0929	1.4525
175	2.92	0.0276	0.0561	0.0920	1.4476
180	3.00	0.0288	0.0572	0.0932	1.4458
185	3.08	0.0284	0.0578	0.0934	1.4464
190	3.17	0.0277	0.0564	0.0924	1.4482

AUX SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
195	3.25	0.0293	0.0583	0.0938	1.4507
200	3.33	0.0293	0.0583	0.0938	1.4507
205	3.42	0.0287	0.0581	0.0937	1.4495
210	3.50	0.0309	0.0596	0.0959	1.4470
215	3.58	0.0309	0.0596	0.0959	1.4470
220	3.67	0.0311	0.0599	0.0959	1.4482
225	3.75	0.0311	0.0599	0.0959	1.4482
230	3.83	0.0274	0.0561	0.0920	1.4391
235	3.92	0.0290	0.0578	0.0935	1.4446
240	4.00	0.0303	0.0589	0.0952	1.4452
245	4.08	0.0303	0.0589	0.0952	1.4452
250	4.17	0.0291	0.0581	0.0943	1.4434
255	4.25	0.0291	0.0581	0.0943	1.4434
260	4.33	0.0284	0.0576	0.0930	1.4434
265	4.42	0.0285	0.0583	0.0935	1.4403
270	4.50	0.0296	0.0584	0.0944	1.4464
275	4.58	0.0296	0.0589	0.0941	1.4452
280	4.67	0.0305	0.0590	0.0952	1.4415
285	4.75	0.0300	0.0587	0.0946	1.4415
290	4.83	0.0297	0.0583	0.0943	1.4421
295	4.92	0.0313	0.0596	0.0961	1.4470
300	5.00	0.0311	0.0599	0.0958	1.4440
305	5.08	0.0314	0.0601	0.0958	1.4452
310	5.17	0.0311	0.0605	0.0959	1.4421
315	5.25	0.0305	0.0596	0.0952	1.4440
320	5.33	0.0302	0.0592	0.0949	1.4440
325	5.42	0.0300	0.0593	0.0944	1.4434
330	5.50	0.0314	0.0604	0.0959	1.4458
335	5.58	0.0313	0.0604	0.0959	1.4464
340	5.67	0.0308	0.0601	0.0956	1.4421
345	5.75	0.0313	0.0602	0.0961	1.4434
350	5.83	0.0320	0.0609	0.0966	1.4434
355	5.92	0.0325	0.0610	0.0969	1.4421
360	6.00	0.0329	0.0621	0.0975	1.4446
365	6.08	0.0351	0.0633	0.0988	1.4495
370	6.17	0.0358	0.0645	0.0998	1.4531
375	6.25	0.0369	0.0662	0.1008	1.4543
380	6.33	0.0383	0.0679	0.1019	1.4476
385	6.42	0.0398	0.0689	0.1037	1.4513
390	6.50	0.0386	0.0677	0.1025	1.4495
395	6.58	0.0395	0.0685	0.1034	1.4489
400	6.67	0.0401	0.0694	0.1040	1.4489
405	6.75	0.0396	0.0692	0.1036	1.4458
410	6.83	0.0393	0.0691	0.1031	1.4501

AUX SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
415	6.92	0.0393	0.0691	0.1031	1.4501
420	7.00	0.0399	0.0689	0.1033	1.4464
425	7.08	0.0413	0.0705	0.1045	1.4513
430	7.17	0.0413	0.0705	0.1045	1.4513
435	7.25	0.0398	0.0696	0.1031	1.4482
440	7.33	0.0403	0.0697	0.1039	1.4489
445	7.42	0.0403	0.0697	0.1039	1.4489
450	7.50	0.0396	0.0692	0.1033	1.4452
455	7.58	0.0403	0.0700	0.1045	1.4513
460	7.67	0.0396	0.0691	0.1034	1.4476
465	7.75	0.0403	0.0702	0.1045	1.4482
470	7.83	0.0396	0.0699	0.1034	1.4489
475	7.92	0.0403	0.0702	0.1040	1.4507
480	8.00	0.0396	0.0703	0.1039	1.4464
485	8.08	0.0403	0.0708	0.1043	1.4476
490	8.17	0.0403	0.0708	0.1043	1.4476
495	8.25	0.0416	0.0712	0.1053	1.4458
500	8.33	0.0421	0.0723	0.1060	1.4507
505	8.42	0.0421	0.0723	0.1060	1.4507
510	8.50	0.0419	0.0718	0.1051	1.4495
515	8.58	0.0418	0.0717	0.1051	1.4507
520	8.67	0.0419	0.0724	0.1054	1.4519
525	8.75	0.0422	0.0731	0.1063	1.4495
530	8.83	0.0418	0.0724	0.1056	1.4482
535	8.92	0.0412	0.0717	0.1051	1.4482
540	9.00	0.0404	0.0715	0.1046	1.4464
545	9.08	0.0404	0.0715	0.1046	1.4464
550	9.17	0.0396	0.0702	0.1034	1.4446
555	9.25	0.0406	0.0705	0.1039	1.4489
560	9.33	0.0407	0.0706	0.1045	1.4360
565	9.42	0.0407	0.0711	0.1048	1.4385
570	9.50	0.0377	0.0680	0.1011	1.4287
575	9.58	0.0377	0.0680	0.1011	1.4287
580	9.67	0.0374	0.0676	0.1014	1.4373
585	9.75	0.0380	0.0686	0.1019	1.4421
590	9.83	0.0380	0.0686	0.1019	1.4421
595	9.92	0.0372	0.0679	0.1014	1.4293
600	10.00	0.0370	0.0676	0.1008	1.4275
660	11.00	0.0364	0.0668	0.1001	1.4214
720	12.00	0.0297	0.0589	0.0901	1.3225
780	13.00	0.0346	0.0641	0.0995	1.4379
840	14.00	0.0341	0.0644	0.0984	1.4336
900	15.00	0.0401	0.0703	0.1042	1.4415
960	16.00	0.0425	0.0737	0.1071	1.4427
1020	17.00	0.0409	0.0728	0.1053	1.4391

AUX SVE TEST ONE

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
1080	18.00	0.0392	0.0703	0.1033	1.4391
1140	19.00	0.0398	0.0715	0.1045	1.4324
1200	20.00	0.0406	0.0715	0.1053	1.4324
1260	21.00	0.0393	0.0709	0.1040	1.4348
MAXIMUM		0.0425	0.0737	0.1071	1.4543

Measuring Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
MP-1	41.2	0.0425	-3.158251203
MP-2	33.8	0.0737	-2.60775248
MP-3	23	0.1071	-2.233992302

IMC Magnetics

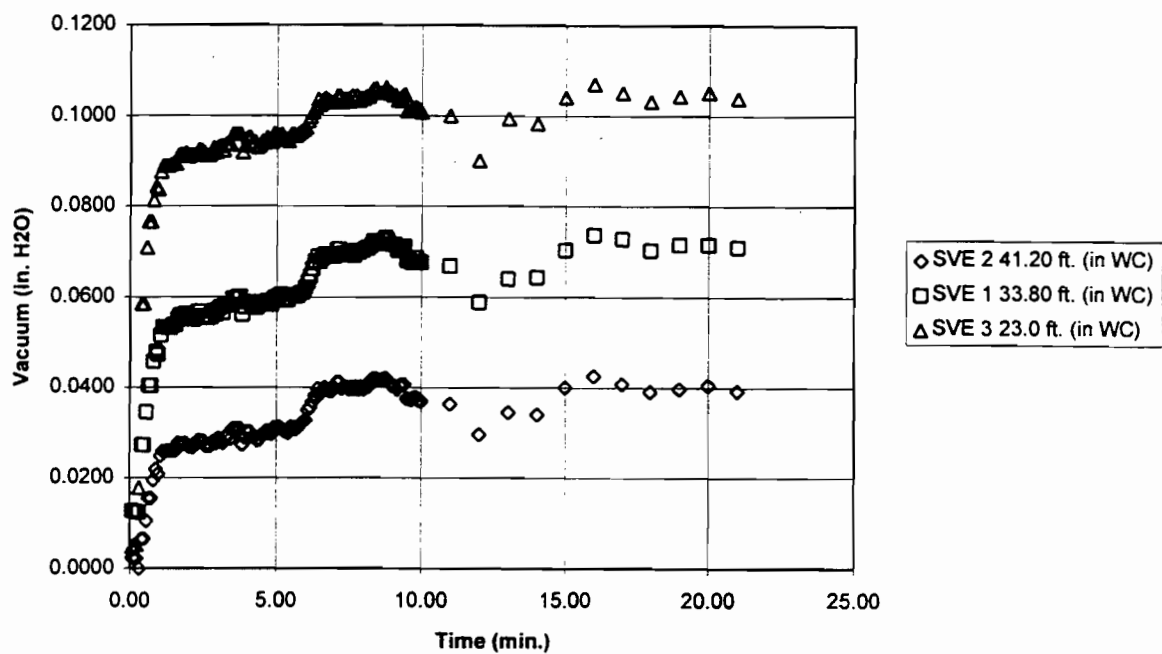
SVE Pilot Test Data

Aux SVE Test One

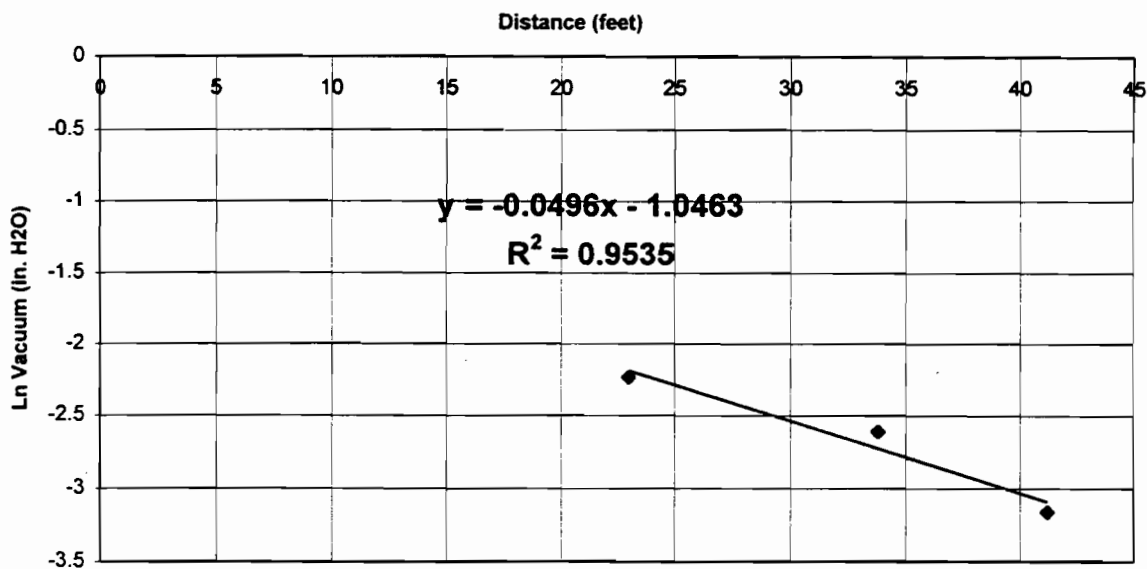
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs. Distance



IMC Magnetics ROI, System Design Specifications

Aux SVE Test One

Steady State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.0496		-1.0463	25.27621	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	2	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	25.27	feet	cm
Extraction Rate =	43.6	CFM	cm^3/s

Air Permeability =	1.48E-06 cm^2	or	147.7617 Darcys
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Non-Steady State Equations

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Extraction Rate =	43.6	CFM	cm^3/s
Slope of Ln (T) vs P, well 1 =	50.69	g/cm s^2	
Slope of Ln (T) vs P, well 2 =	76.17	g/cm s^2	
Slope of Ln (T) vs P, well 3 =	121.35	g/cm s^2	

Air Permeability, Well 1	1.27E-05 cm^2	or	1271.78 Darcys
Air Permeability, Well 2	8.46E-06 cm^2	or	846.3505 Darcys
Air Permeability, Well 3	5.31E-06 cm^2	or	531.2445 Darcys

IMC Magnetics

SVE Pilot Test Data

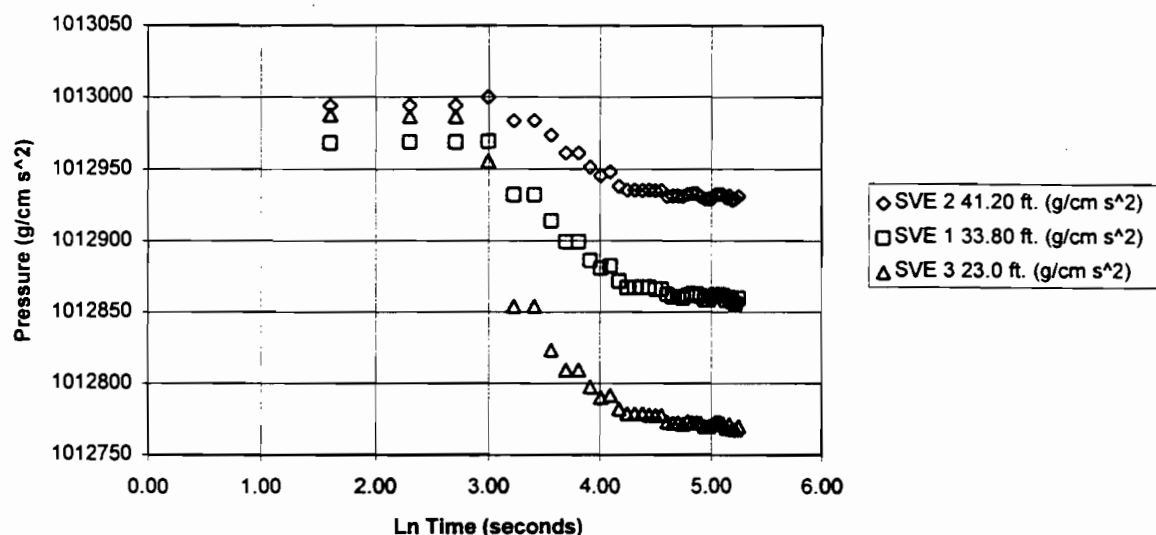
Aux SVE Test One

Non-Steady State Data (In T vs P)

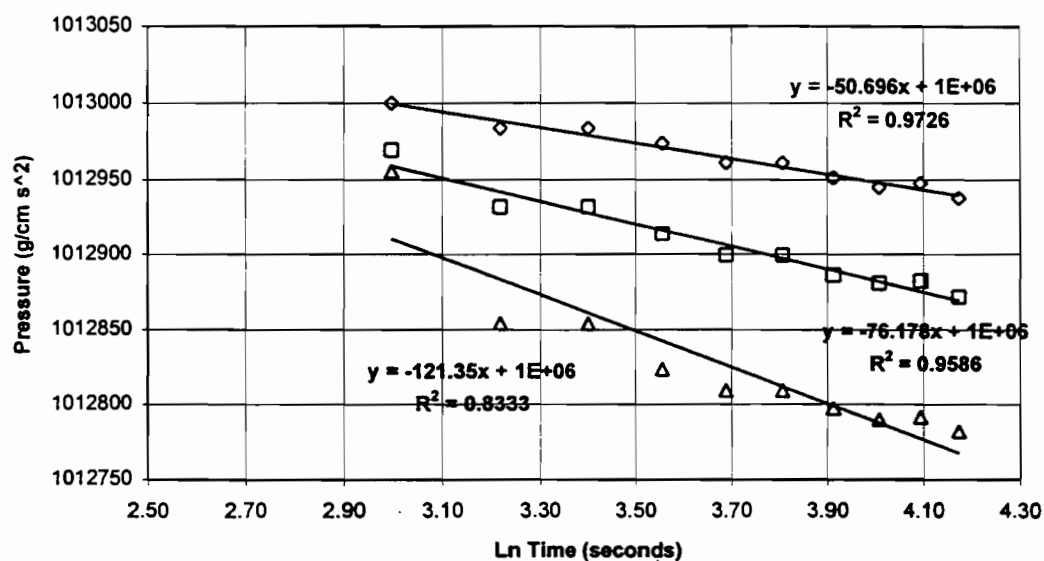
elapsed time (sec)	In (T)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	SVE 2 41.20 ft. (g/cm s ²)	SVE 1 33.80 ft. (g/cm s ²)	SVE 3 23.0 ft. (g/cm s ²)
5	1.61	0.0024	0.0128	0.0049	1012994	1012968	1012988
10	2.30	0.0023	0.0125	0.0053	1012994	1012969	1012987
15	2.71	0.0023	0.0125	0.0053	1012994	1012969	1012987
20	3.00	0.0000	0.0123	0.0178	1013000	1012969	1012956
25	3.22	0.0065	0.0273	0.0586	1012984	1012932	1012854
30	3.40	0.0065	0.0273	0.0586	1012984	1012932	1012854
35	3.56	0.0105	0.0346	0.0709	1012974	1012914	1012823
40	3.69	0.0155	0.0404	0.0766	1012961	1012899	1012809
45	3.81	0.0155	0.0404	0.0766	1012961	1012899	1012809
50	3.91	0.0195	0.0457	0.0813	1012951	1012886	1012798
55	4.01	0.0219	0.0479	0.0844	1012945	1012881	1012790
60	4.09	0.0209	0.0473	0.0837	1012948	1012882	1012792
65	4.17	0.0248	0.0515	0.0876	1012938	1012872	1012782
70	4.25	0.0259	0.0534	0.0889	1012936	1012867	1012779
75	4.32	0.0259	0.0534	0.0889	1012936	1012867	1012779
80	4.38	0.0261	0.0532	0.0889	1012935	1012868	1012779
85	4.44	0.0259	0.0532	0.0892	1012936	1012868	1012778
90	4.50	0.0261	0.0538	0.0894	1012935	1012866	1012778
95	4.55	0.0261	0.0538	0.0894	1012935	1012866	1012778
100	4.61	0.0277	0.0552	0.0912	1012931	1012863	1012773
105	4.65	0.0276	0.0560	0.0915	1012931	1012861	1012772
110	4.70	0.0276	0.0560	0.0915	1012931	1012861	1012772
115	4.74	0.0277	0.0563	0.0918	1012931	1012860	1012771
120	4.79	0.0271	0.0555	0.0911	1012932	1012862	1012773
125	4.83	0.0268	0.0551	0.0914	1012933	1012863	1012773
130	4.87	0.0268	0.0551	0.0914	1012933	1012863	1012773
135	4.91	0.0277	0.0557	0.0915	1012931	1012861	1012772
140	4.94	0.0284	0.0567	0.0924	1012929	1012859	1012770
145	4.98	0.0284	0.0567	0.0924	1012929	1012859	1012770
150	5.01	0.0282	0.0558	0.0920	1012930	1012861	1012771
155	5.04	0.0271	0.0554	0.0912	1012932	1012862	1012773
160	5.08	0.0271	0.0554	0.0912	1012932	1012862	1012773
165	5.11	0.0271	0.0555	0.0917	1012932	1012862	1012772
170	5.14	0.0280	0.0569	0.0929	1012930	1012858	1012769
175	5.16	0.0276	0.0561	0.0920	1012931	1012860	1012771
180	5.19	0.0288	0.0572	0.0932	1012928	1012858	1012768
185	5.22	0.0284	0.0578	0.0934	1012929	1012856	1012768
190	5.25	0.0277	0.0564	0.0924	1012931	1012860	1012770

- IMC Magnetics
- SVE Pilot Test Data
- Aux SVE Test One
- Ln Time vs Pressure

Ln (Time) vs Pressure



Ln Time vs Pressure



IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-4, Intermediate
Flow Rate:	41.4 CFM
Test Name:	Aux SVE Test Two
Job No.	11531

Data Log					
Test Start: 7/17/96 7:31:00 AM					
elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
5	0.08	-0.0037	0.0146	0.0348	1.6838
10	0.17	0.0030	0.0238	0.0464	1.7101
15	0.25	0.0088	0.0303	0.0551	1.7198
20	0.33	0.0131	0.0360	0.0616	1.7241
25	0.42	0.0145	0.0370	0.0642	1.7314
30	0.50	0.0131	0.0372	0.0645	1.7266
35	0.58	0.0146	0.0386	0.0671	1.7357
40	0.67	0.0166	0.0413	0.0700	1.7308
45	0.75	0.0186	0.0430	0.0723	1.7382
50	0.83	0.0186	0.0430	0.0723	1.7382
55	0.92	0.0219	0.0474	0.0764	1.7437
60	1.00	0.0282	0.0538	0.0839	1.7455
65	1.08	0.0294	0.0547	0.0850	1.7461
70	1.17	0.0294	0.0547	0.0850	1.7461
75	1.25	0.0341	0.0601	0.0901	1.7516
80	1.33	0.0360	0.0625	0.0926	1.7559
85	1.42	0.0335	0.0601	0.0900	1.7565
90	1.50	0.0335	0.0601	0.0900	1.7565
95	1.58	0.0370	0.0631	0.0930	1.7540
100	1.67	0.0370	0.0631	0.0930	1.7540
105	1.75	0.0381	0.0647	0.0952	1.7552
110	1.83	0.0406	0.0673	0.0975	1.7595
115	1.92	0.0419	0.0682	0.0990	1.7607
120	2.00	0.0403	0.0679	0.0979	1.7577
125	2.08	0.0419	0.0689	0.0996	1.7644
130	2.17	0.0419	0.0689	0.0996	1.7644
135	2.25	0.0422	0.0689	0.0999	1.7552
140	2.33	0.0422	0.0689	0.0999	1.7552
145	2.42	0.0436	0.0703	0.1016	1.7559
150	2.50	0.0436	0.0703	0.1016	1.7559
155	2.58	0.0468	0.0741	0.1050	1.7626
160	2.67	0.0468	0.0741	0.1050	1.7626
165	2.75	0.0465	0.0734	0.1036	1.7583
170	2.83	0.0505	0.0775	0.1082	1.7656
175	2.92	0.0505	0.0775	0.1082	1.7656
180	3.00	0.0515	0.0787	0.1095	1.7687

AUX SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
185	3.08	0.0496	0.0770	0.1072	1.7589
190	3.17	0.0494	0.0767	0.1071	1.7650
195	3.25	0.0494	0.0767	0.1071	1.7650
200	3.33	0.0488	0.0763	0.1069	1.7662
205	3.42	0.0499	0.0779	0.1082	1.7699
210	3.50	0.0522	0.0801	0.1103	1.7693
215	3.58	0.0534	0.0808	0.1115	1.7693
220	3.67	0.0512	0.0787	0.1094	1.7723
225	3.75	0.0534	0.0805	0.1115	1.7687
230	3.83	0.0534	0.0813	0.1123	1.7675
235	3.92	0.0534	0.0813	0.1123	1.7675
240	4.00	0.0523	0.0802	0.1104	1.7687
245	4.08	0.0523	0.0802	0.1104	1.7687
250	4.17	0.0514	0.0792	0.1094	1.7632
255	4.25	0.0514	0.0792	0.1094	1.7632
260	4.33	0.0508	0.0789	0.1095	1.7632
265	4.42	0.0497	0.0779	0.1085	1.7595
270	4.50	0.0502	0.0779	0.1083	1.7656
275	4.58	0.0499	0.0779	0.1092	1.7644
280	4.67	0.0506	0.0790	0.1094	1.7656
285	4.75	0.0506	0.0790	0.1094	1.7656
290	4.83	0.0514	0.0787	0.1095	1.7650
295	4.92	0.0529	0.0811	0.1114	1.7650
300	5.00	0.0529	0.0811	0.1114	1.7650
305	5.08	0.0549	0.0828	0.1133	1.7699
310	5.17	0.0561	0.0840	0.1146	1.7687
315	5.25	0.0546	0.0831	0.1138	1.7668
320	5.33	0.0546	0.0831	0.1138	1.7668
325	5.42	0.0540	0.0821	0.1127	1.7620
330	5.50	0.0526	0.0808	0.1112	1.7644
335	5.58	0.0526	0.0808	0.1112	1.7644
340	5.67	0.0525	0.0811	0.1112	1.7620
345	5.75	0.0540	0.0827	0.1126	1.7711
350	5.83	0.0573	0.0856	0.1156	1.7699
355	5.92	0.0561	0.0840	0.1147	1.7717
360	6.00	0.0561	0.0840	0.1147	1.7717
365	6.08	0.0593	0.0874	0.1176	1.7717
370	6.17	0.0580	0.0863	0.1167	1.7687
375	6.25	0.0580	0.0863	0.1167	1.7687
380	6.33	0.0580	0.0856	0.1162	1.7711
385	6.42	0.0576	0.0859	0.1165	1.7668
390	6.50	0.0572	0.0859	0.1159	1.7675
395	6.58	0.0563	0.0850	0.1152	1.7717

AUX SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
400	6.67	0.0567	0.0859	0.1156	1.7675
405	6.75	0.0567	0.0859	0.1156	1.7675
410	6.83	0.0578	0.0857	0.1164	1.7693
415	6.92	0.0569	0.0851	0.1158	1.7656
420	7.00	0.0583	0.0868	0.1175	1.7656
425	7.08	0.0583	0.0868	0.1175	1.7656
430	7.17	0.0607	0.0895	0.1196	1.7681
435	7.25	0.0602	0.0891	0.1191	1.7711
440	7.33	0.0572	0.0857	0.1167	1.7632
445	7.42	0.0572	0.0857	0.1167	1.7632
450	7.50	0.0590	0.0874	0.1179	1.7723
455	7.58	0.0613	0.0894	0.1201	1.7723
460	7.67	0.0641	0.0926	0.1228	1.7778
465	7.75	0.0615	0.0900	0.1205	1.7717
470	7.83	0.0651	0.0935	0.1240	1.7797
475	7.92	0.0641	0.0935	0.1237	1.7729
480	8.00	0.0641	0.0935	0.1237	1.7729
485	8.08	0.0619	0.0911	0.1213	1.7736
490	8.17	0.0616	0.0908	0.1211	1.7699
495	8.25	0.0619	0.0912	0.1216	1.7723
500	8.33	0.0619	0.0912	0.1216	1.7723
505	8.42	0.0624	0.0918	0.1217	1.7668
510	8.50	0.0627	0.0917	0.1220	1.7742
515	8.58	0.0607	0.0898	0.1202	1.7693
520	8.67	0.0610	0.0897	0.1193	1.7687
525	8.75	0.0555	0.0854	0.1159	1.7662
530	8.83	0.0602	0.0895	0.1198	1.7687
535	8.92	0.0602	0.0895	0.1198	1.7687
540	9.00	0.0625	0.0917	0.1219	1.7650
545	9.08	0.0638	0.0924	0.1228	1.7717
550	9.17	0.0605	0.0903	0.1199	1.7729
555	9.25	0.0601	0.0894	0.1194	1.7717
560	9.33	0.0604	0.0897	0.1194	1.7699
565	9.42	0.0607	0.0901	0.1204	1.7693
570	9.50	0.0628	0.0917	0.1219	1.7693
575	9.58	0.0633	0.0923	0.1228	1.7742
580	9.67	0.0647	0.0937	0.1243	1.7699
585	9.75	0.0648	0.0937	0.1236	1.7760
590	9.83	0.0619	0.0915	0.1217	1.7681
595	9.92	0.0619	0.0915	0.1217	1.7681
600	10.00	0.0634	0.0923	0.1222	1.7748
660	11.00	0.0587	0.0882	0.1181	1.7638
720	12.00	0.0576	0.0882	0.1176	1.7711
780	13.00	0.0580	0.0883	0.1182	1.7668

AUX SVE TEST TWO

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
840	14.00	0.0625	0.0920	0.1219	1.7662
900	15.00	0.0581	0.0886	0.1182	1.7614
960	16.00	0.0517	0.0821	0.1124	1.7577
1020	17.00	0.0575	0.0873	0.1176	1.7595
1080	18.00	0.0554	0.0862	0.1161	1.7577
1140	19.00	0.0660	0.0966	0.1268	1.7681
1200	20.00	0.0703	0.1008	0.1284	1.6075
1260	21.00	0.0703	0.1021	0.1313	1.7705
1320	22.00	0.0712	0.1025	0.1317	1.7723
1440	24.00	0.0720	0.1036	0.1294	1.7729
1500	25.00	0.0782	0.1101	0.1359	1.7809
1560	26.00	0.0714	0.1031	0.1284	1.7784
1620	27.00	0.0677	0.0990	0.1243	1.7656
1680	28.00	0.0767	0.1077	0.1332	1.7809
1740	29.00	0.0634	0.0938	0.1199	1.7632
1800	30.00	0.0718	0.1010	0.1269	1.7717
1860	31.00	0.0757	0.1048	0.1307	1.7742
1920	32.00	0.0689	0.0990	0.1243	1.7577
1980	33.00	0.0636	0.0927	0.1188	1.7638
2040	34.00	0.0654	0.0938	0.1196	1.7626
2100	35.00	0.0644	0.0914	0.1169	1.7510
2160	36.00	0.0656	0.0915	0.1184	1.7620
2220	37.00	0.0625	0.0903	0.1167	1.7577

MAXIMUM	0.0782	0.1101	0.1359	1.7809
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Measuring Point	Distance (feet)	Vacuum (ln. H2O)	Ln Vacuum
MP-1	41.2	0.0782	-2.547884789
MP-2	33.8	0.1101	-2.206021154
MP-3	23	0.1359	-1.995652016

IMC Magnetics

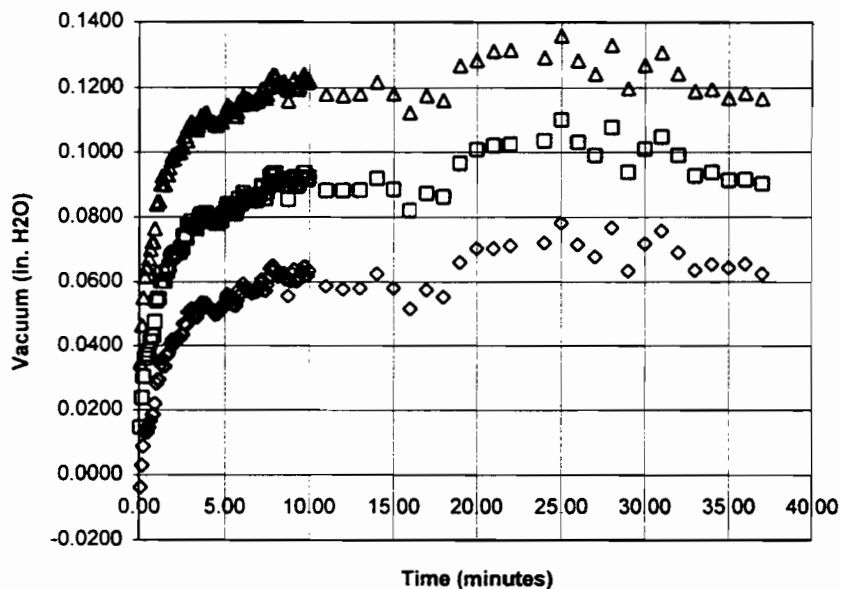
SVE Pilot Test Data

Aux SVE Test Two

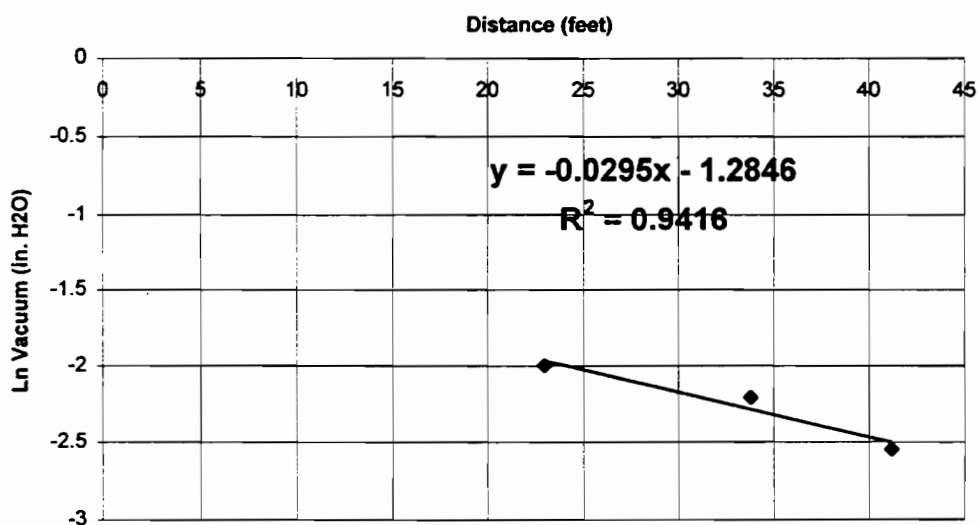
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetics ROI, System Design Specifications

Aux SVE Test Two

Steady-State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B
	-0.0295		-1.286

"ROI"
34.37288

Feet

Screened Thickness (H) =	15	feet
Air Viscosity =	0.00018	g/cm-s (poise)
Vacuum in SVE Well =	2	in. H2O
Atmospheric Pressure =	1	ATM
Well Radius =	1	inches
Radius of Influence =	34	feet
Extraction Rate =	41.4	CFM

conv. to: cm

g/cm s²

g/cm s²

cm

cm

cm³/s

Air Permeability = 1.48E-06 cm²

or

147.8594 Darcys

Non-Steady State Equations

Screened Thickness (H) =	15	feet
Air Viscosity =	0.00018	g/cm-s (poise)
Extraction Rate =	43.6	CFM
Slope of Ln (T) vs P, well 1 =	50.811	g/cm s ²
Slope of Ln (T) vs P, well 2 =	55.752	g/cm s ²
Slope of Ln (T) vs P, well 3 =	59.549	g/cm s ²

conv. to: cm

cm³/s

Air Permeability, Well 1 1.27E-05 cm²

or

1268.751 Darcys

Air Permeability, Well 2 1.16E-05 cm²

or

1156.309 Darcys

Air Permeability, Well 3 1.08E-05 cm²

or

1082.579 Darcys

IMC Magnetics

SVE Pilot Test Data

Aux SVE Test Two

Non-Steady State Data (ln T vs P)

elapsed time (sec)	ln (T)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	SVE 2 41.20 ft. (g/cm s ²)	SVE 1 33.80 ft. (g/cm s ²)	SVE 3 23.0 ft. (g/cm s ²)
5	1.61	-0.0037	0.0146	0.0348	1013009	1012964	1012913
10	2.30	0.0030	0.0238	0.0464	1012992	1012941	1012885
15	2.71	0.0088	0.0303	0.0551	1012978	1012925	1012863
20	3.00	0.0131	0.0360	0.0616	1012967	1012910	1012847
25	3.22	0.0145	0.0370	0.0642	1012964	1012908	1012840
30	3.40	0.0131	0.0372	0.0645	1012967	1012907	1012839
35	3.56	0.0146	0.0386	0.0671	1012964	1012904	1012833
40	3.69	0.0166	0.0413	0.0700	1012959	1012897	1012826
45	3.81	0.0186	0.0430	0.0723	1012954	1012893	1012820
50	3.91	0.0186	0.0430	0.0723	1012954	1012893	1012820
55	4.01	0.0219	0.0474	0.0764	1012945	1012882	1012810
60	4.09	0.0282	0.0538	0.0839	1012930	1012866	1012791
65	4.17	0.0294	0.0547	0.0850	1012927	1012864	1012789
70	4.25	0.0294	0.0547	0.0850	1012927	1012864	1012789
75	4.32	0.0341	0.0601	0.0901	1012915	1012850	1012776
80	4.38	0.0360	0.0625	0.0926	1012910	1012844	1012770
85	4.44	0.0335	0.0601	0.0900	1012917	1012850	1012776
90	4.50	0.0335	0.0601	0.0900	1012917	1012850	1012776
95	4.55	0.0370	0.0631	0.0930	1012908	1012843	1012768
100	4.61	0.0370	0.0631	0.0930	1012908	1012843	1012768
105	4.65	0.0381	0.0647	0.0952	1012905	1012839	1012763
110	4.70	0.0406	0.0673	0.0975	1012899	1012833	1012757
115	4.74	0.0419	0.0682	0.0990	1012896	1012830	1012754
120	4.79	0.0403	0.0679	0.0979	1012900	1012831	1012756
125	4.83	0.0419	0.0689	0.0996	1012896	1012828	1012752
130	4.87	0.0419	0.0689	0.0996	1012896	1012828	1012752
135	4.91	0.0422	0.0689	0.0999	1012895	1012828	1012751
140	4.94	0.0422	0.0689	0.0999	1012895	1012828	1012751
145	4.98	0.0436	0.0703	0.1016	1012891	1012825	1012747
150	5.01	0.0436	0.0703	0.1016	1012891	1012825	1012747
155	5.04	0.0468	0.0741	0.1050	1012883	1012816	1012739
160	5.08	0.0468	0.0741	0.1050	1012883	1012816	1012739
165	5.11	0.0465	0.0734	0.1036	1012884	1012817	1012742
170	5.14	0.0505	0.0775	0.1082	1012874	1012807	1012731
175	5.16	0.0505	0.0775	0.1082	1012874	1012807	1012731
180	5.19	0.0515	0.0787	0.1095	1012872	1012804	1012727
185	5.22	0.0496	0.0770	0.1072	1012877	1012808	1012733
190	5.25	0.0494	0.0767	0.1071	1012877	1012809	1012733

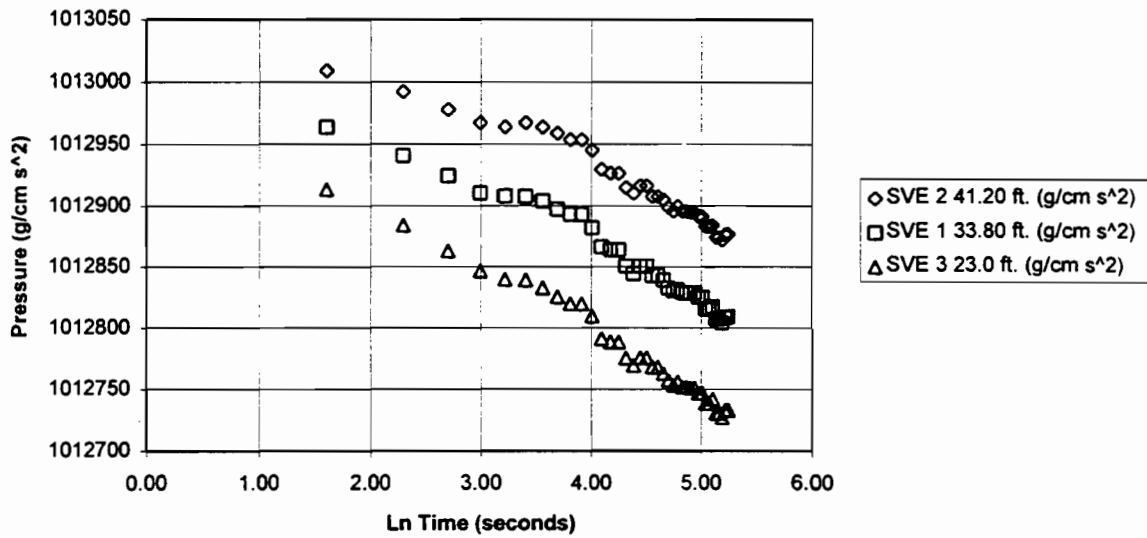
IMC Magnetics

SVE Pilot Test Data

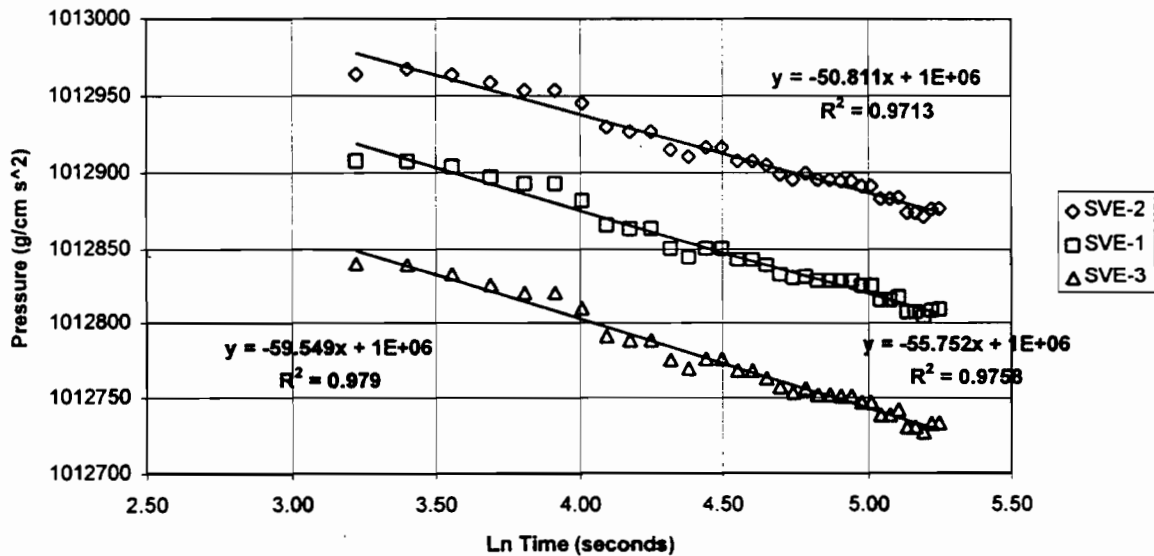
Aux SVE Test Two

Ln Time vs Pressure

Ln (Time) vs Pressure



Ln Time vs Pressure



IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-4, Intermediate
Flow Rate:	21.8 CFM
Test Name:	Aux SVE Test Three
Job No.	11531

Data Log					
Test Start: 7/17/96 8:43:05 AM					
elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
5	0.08	0.0204	0.0334	0.0247	0.0145
30	0.50	0.0227	0.0352	0.0271	0.0182
35	0.58	0.0193	0.0320	0.0229	0.1476
40	0.67	0.0178	0.0314	0.0277	1.4421
45	0.75	0.0200	0.0355	0.0427	1.5050
50	0.83	0.0262	0.0456	0.0586	1.2468
55	0.92	0.0293	0.0499	0.0634	1.1559
60	1.00	0.0279	0.0491	0.0622	0.8654
65	1.08	0.0279	0.0491	0.0609	0.8544
70	1.17	0.0291	0.0496	0.0607	0.7775
75	1.25	0.0300	0.0503	0.0605	0.7689
80	1.33	0.0300	0.0503	0.0605	0.7689
85	1.42	0.0331	0.0532	0.0627	0.7701
90	1.50	0.0331	0.0532	0.0627	0.7701
95	1.58	0.0337	0.0538	0.0633	0.7756
100	1.67	0.0337	0.0535	0.0631	0.8293
105	1.75	0.0358	0.0564	0.0657	0.8660
110	1.83	0.0375	0.0587	0.0691	0.8715
115	1.92	0.0375	0.0584	0.0686	0.8702
120	2.00	0.0384	0.0609	0.0712	0.8782
125	2.08	0.0390	0.0605	0.0711	0.8782
130	2.17	0.0390	0.0605	0.0711	0.8782
135	2.25	0.0453	0.0671	0.0782	0.8892
140	2.33	0.0430	0.0654	0.0758	0.8831
145	2.42	0.0416	0.0636	0.0743	0.8824
150	2.50	0.0438	0.0662	0.0766	0.8849
155	2.58	0.0407	0.0631	0.0738	0.8818
160	2.67	0.0407	0.0631	0.0738	0.8818
165	2.75	0.0441	0.0662	0.0776	0.8898
170	2.83	0.0502	0.0721	0.0831	0.8947
175	2.92	0.0586	0.0815	0.0914	0.9026
180	3.00	0.0529	0.0761	0.0854	0.8953
185	3.08	0.0477	0.0705	0.0802	0.8898
190	3.17	0.0457	0.0685	0.0790	0.8910
195	3.25	0.0439	0.0670	0.0770	0.8873
200	3.33	0.0439	0.0670	0.0770	0.8873

AUX SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
205	3.42	0.0435	0.0663	0.0767	0.8892
210	3.50	0.0461	0.0685	0.0792	0.8928
215	3.58	0.0461	0.0685	0.0792	0.8928
220	3.67	0.0537	0.0763	0.0866	0.9026
225	3.75	0.0537	0.0761	0.0865	0.8989
230	3.83	0.0514	0.0746	0.0845	0.8989
235	3.92	0.0493	0.0728	0.0827	0.8959
240	4.00	0.0493	0.0728	0.0827	0.8959
245	4.08	0.0445	0.0671	0.0778	0.8904
250	4.17	0.0425	0.0656	0.0764	0.8886
260	4.33	0.0454	0.0680	0.0789	0.8916
270	4.50	0.0404	0.0634	0.0740	0.8855
285	4.75	0.0404	0.0634	0.0740	0.8855
290	4.83	0.0367	0.0596	0.0712	0.8843
295	4.92	0.0380	0.0607	0.0724	0.8873
300	5.00	0.0393	0.0618	0.0734	0.8886
305	5.08	0.0392	0.0619	0.0735	0.8861
310	5.17	0.0392	0.0619	0.0735	0.8861
315	5.25	0.0454	0.0676	0.0786	0.8922
320	5.33	0.0432	0.0665	0.0775	0.8898
325	5.42	0.0432	0.0665	0.0775	0.8898
330	5.50	0.0435	0.0662	0.0775	0.8892
335	5.58	0.0412	0.0641	0.0750	0.8873
340	5.67	0.0372	0.0605	0.0712	0.8831
345	5.75	0.0354	0.0584	0.0692	0.8831
350	5.83	0.0354	0.0584	0.0692	0.8831
355	5.92	0.0352	0.0581	0.0694	0.8818
360	6.00	0.0370	0.0599	0.0712	0.8849
365	6.08	0.0370	0.0599	0.0712	0.8849
370	6.17	0.0419	0.0645	0.0758	0.8922
375	6.25	0.0413	0.0639	0.0750	0.8879
380	6.33	0.0360	0.0587	0.0697	0.8831
385	6.42	0.0331	0.0558	0.0680	0.8818
390	6.50	0.0358	0.0583	0.0702	0.8855
395	6.58	0.0358	0.0583	0.0702	0.8855
400	6.67	0.0355	0.0581	0.0696	0.8812
405	6.75	0.0355	0.0581	0.0696	0.8812
410	6.83	0.0386	0.0604	0.0723	0.8898
415	6.92	0.0430	0.0654	0.0767	0.8892
420	7.00	0.0430	0.0654	0.0767	0.8892
425	7.08	0.0424	0.0650	0.0757	0.8879
430	7.17	0.0364	0.0599	0.0705	0.8794
435	7.25	0.0338	0.0569	0.0682	0.8837

AUX SVE TEST THREE

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
440	7.33	0.0346	0.0567	0.0680	0.8818
445	7.42	0.0348	0.0573	0.0691	0.8831
450	7.50	0.0343	0.0569	0.0683	0.8818
455	7.58	0.0245	0.0474	0.0593	0.8702
460	7.67	0.0238	0.0467	0.0589	0.8751
465	7.75	0.0293	0.0512	0.0631	0.8751
470	7.83	0.0267	0.0491	0.0613	0.8757
475	7.92	0.0267	0.0491	0.0613	0.8757
480	8.00	0.0279	0.0499	0.0625	0.8757
485	8.08	0.0303	0.0522	0.0644	0.8776
490	8.17	0.0313	0.0535	0.0653	0.8818
495	8.25	0.0313	0.0535	0.0653	0.8818
500	8.33	0.0262	0.0486	0.0610	0.8776
505	8.42	0.0262	0.0486	0.0610	0.8776
510	8.50	0.0264	0.0494	0.0619	0.8745
515	8.58	0.0296	0.0518	0.0641	0.8818
520	8.67	0.0279	0.0500	0.0621	0.8770
525	8.75	0.0245	0.0471	0.0596	0.8757
530	8.83	0.0245	0.0471	0.0596	0.8757
535	8.92	0.0226	0.0448	0.0575	0.8721
540	9.00	0.0271	0.0493	0.0619	0.8794
545	9.08	0.0271	0.0493	0.0619	0.8794
550	9.17	0.0334	0.0560	0.0680	0.8824
555	9.25	0.0317	0.0543	0.0660	0.8812
560	9.33	0.0317	0.0543	0.0660	0.8812
565	9.42	0.0309	0.0534	0.0653	0.8782
570	9.50	0.0309	0.0534	0.0653	0.8788
575	9.58	0.0279	0.0508	0.0628	0.8751
580	9.67	0.0293	0.0518	0.0631	0.8794
585	9.75	0.0303	0.0534	0.0650	0.8800
590	9.83	0.0259	0.0483	0.0601	0.8739
595	9.92	0.0259	0.0483	0.0601	0.8739
600	10.00	0.0236	0.0461	0.0584	0.8733
660	11.00	0.0439	0.0667	0.0781	0.8953
720	12.00	0.0441	0.0673	0.0784	0.8940
780	13.00	0.0360	0.0596	0.0709	0.8861
840	14.00	0.0277	0.0506	0.0630	0.8794
900	15.00	0.0367	0.0592	0.0709	0.8861
960	16.00	0.0270	0.0503	0.0628	0.8800
1020	17.00	0.0303	0.0529	0.0650	0.8855
1080	18.00	0.0180	0.0407	0.0537	0.8702
1140	19.00	0.0329	0.0557	0.0679	0.8824
1200	20.00	0.0250	0.0473	0.0580	0.8495
MAXIMUM		0.0586	0.0815	0.0914	1.5050

Measuring Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
MP-1	41.2	0.0586	-2.83765218
MP-2	33.8	0.0815	-2.50775367
MP-3	23	0.0914	-2.39283808

IMC Magnetics

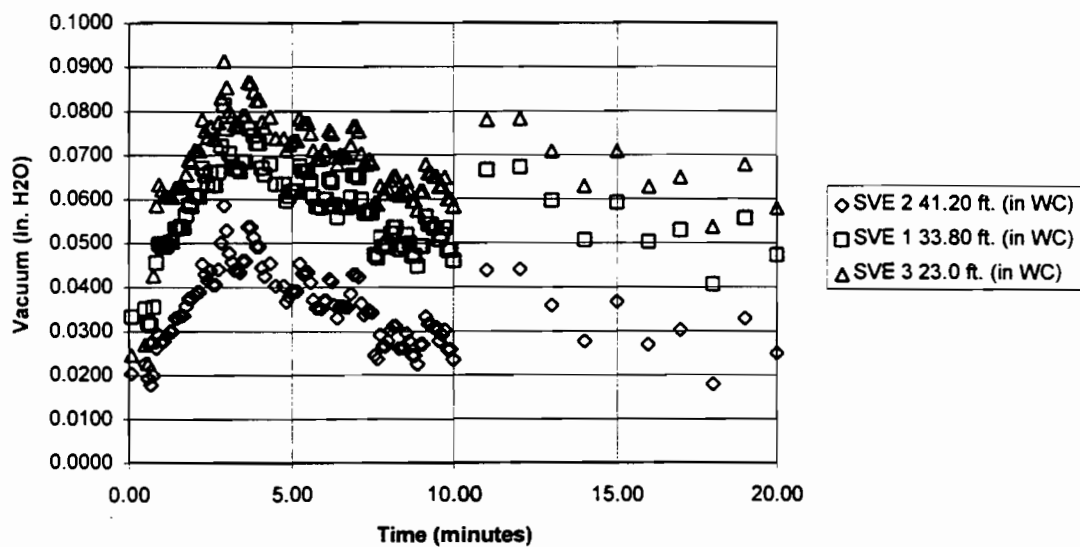
SVE Pilot Test Data

Aux SVE Test Three

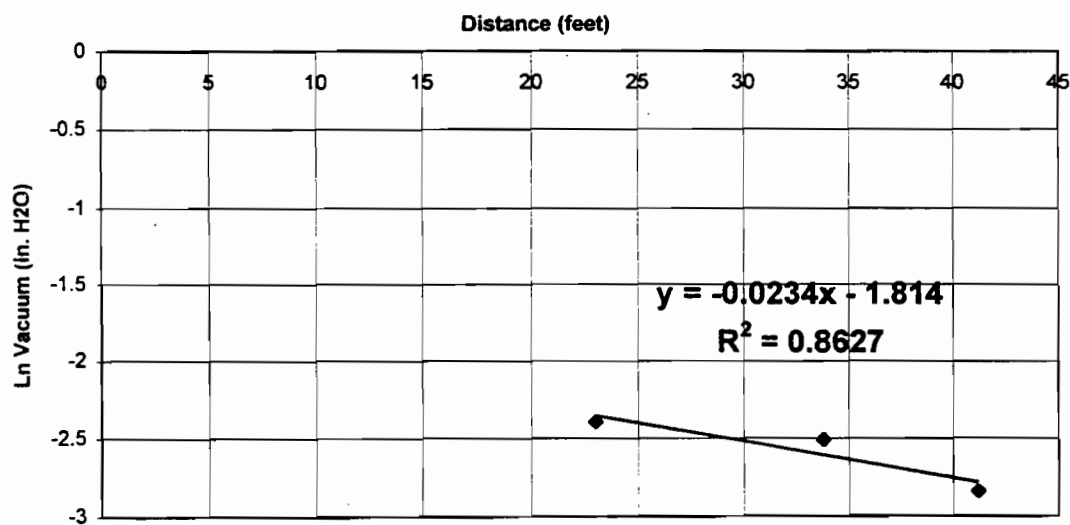
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetics ROI, System Design Specifications
Aux SVE Test Three

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	X +	B	"ROI"	
	-0.0234		-1.814	20.76923	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	0.89	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	34	feet	cm
Extraction Rate =	21.8	CFM	cm^3/s

Air Permeability =	1.75E-06 cm^2	or	175.2025 Darcys
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IMC Magnetics

SVE Pilot Test Data

Extraction Point:	SVE-4, Deep
Flow Rate:	41.4 CFM
Test Name:	Aux SVE Test Four
Job No.	11531

Data Log

Test Start: 7/17/96 9:12:40 AM

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft. (in WC)
5	0.08	-0.0257	-0.0145	0.0116	1.4452
10	0.17	-0.0257	-0.0122	0.0180	1.4592
15	0.25	-0.0180	0.0007	0.0349	1.4763
20	0.33	-0.0191	-0.0003	0.0351	1.4775
25	0.42	-0.0182	0.0016	0.0383	1.4824
30	0.50	-0.0092	0.0114	0.0479	1.4940
35	0.58	-0.0093	0.0119	0.0483	1.4922
40	0.67	-0.0084	0.0132	0.0499	1.4934
45	0.75	-0.0008	0.0207	0.0573	1.5013
50	0.83	-0.0005	0.0219	0.0584	1.5044
55	0.92	0.0042	0.0271	0.0634	1.5105
60	1.00	0.0079	0.0306	0.0667	1.5074
65	1.08	0.0065	0.0300	0.0660	1.5093
70	1.17	0.0055	0.0293	0.0651	1.5087
75	1.25	0.0081	0.0311	0.0671	1.5117
80	1.33	0.0142	0.0374	0.0728	1.5184
85	1.42	0.0184	0.0424	0.0776	1.5215
90	1.50	0.0184	0.0424	0.0776	1.5215
95	1.58	0.0142	0.0380	0.0724	1.9994
100	1.67	0.0142	0.0380	0.0724	1.9994
105	1.75	0.0201	0.0451	0.0897	1.9994
110	1.83	0.0268	0.0538	0.1060	1.9994
115	1.92	0.0268	0.0538	0.1060	1.9994
120	2.00	0.0340	0.0650	0.1233	1.9994
125	2.08	0.0325	0.0644	0.1248	1.9994
130	2.17	0.0317	0.0639	0.1249	1.9994
135	2.25	0.0334	0.0659	0.1281	1.9994
140	2.33	0.0372	0.0712	0.1342	1.9994
145	2.42	0.0461	0.0808	0.1433	1.9994
150	2.50	0.0486	0.0831	0.1455	1.9994
155	2.58	0.0470	0.0822	0.1442	1.9994
160	2.67	0.0470	0.0822	0.1442	1.9994
165	2.75	0.0523	0.0871	0.1494	1.9994
170	2.83	0.0541	0.0895	0.1516	1.9994
175	2.92	0.0541	0.0895	0.1516	1.9994
180	3.00	0.0509	0.0871	0.1490	1.9994

AUX SVE TEST FOUR

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft (in WC)
185	3.08	0.0509	0.0871	0.1490	1.9994
190	3.17	0.0569	0.0932	0.1552	1.9994
195	3.25	0.0569	0.0932	0.1552	1.9994
200	3.33	0.0612	0.0979	0.1593	1.9994
205	3.42	0.0566	0.0932	0.1545	1.9994
210	3.50	0.0566	0.0932	0.1545	1.9994
215	3.58	0.0607	0.0975	0.1590	1.9994
220	3.67	0.0642	0.1007	0.1613	0.0177
225	3.75	0.0671	0.1071	0.1678	2.3096
230	3.83	0.0692	0.1063	0.1663	3.0145
235	3.92	0.0686	0.1054	0.1657	3.0115
240	4.00	0.0686	0.1054	0.1657	3.0115
245	4.08	0.0685	0.1062	0.1663	3.0054
250	4.17	0.0697	0.1063	0.1667	2.9993
255	4.25	0.0697	0.1063	0.1667	2.9993
260	4.33	0.0665	0.1037	0.1637	2.9962
265	4.42	0.0657	0.1028	0.1625	3.0084
270	4.50	0.0659	0.1030	0.1631	2.9932
275	4.58	0.0659	0.1030	0.1631	2.9932
280	4.67	0.0644	0.1011	0.1605	2.9993
285	4.75	0.0638	0.1008	0.1603	3.0054
290	4.83	0.0631	0.1007	0.1608	3.0145
295	4.92	0.0631	0.1007	0.1608	3.0145
300	5.00	0.0642	0.1010	0.1611	2.9932
305	5.08	0.0618	0.0993	0.1593	3.0023
310	5.17	0.0578	0.0952	0.1556	2.9932
315	5.25	0.0578	0.0952	0.1556	2.9932
320	5.33	0.0529	0.0905	0.1515	2.9871
325	5.42	0.0572	0.0937	0.1552	2.9962
330	5.50	0.0549	0.0918	0.1526	2.9901
335	5.58	0.0543	0.0918	0.1529	2.9871
340	5.67	0.0543	0.0918	0.1529	2.9871
345	5.75	0.0534	0.0903	0.1513	2.9779
350	5.83	0.0534	0.0903	0.1513	2.9779
355	5.92	0.0531	0.0909	0.1521	2.9840
360	6.00	0.0529	0.0900	0.1512	2.9901
365	6.08	0.0531	0.0900	0.1515	2.9932
370	6.17	0.0531	0.0900	0.1515	2.9932
375	6.25	0.0488	0.0862	0.1484	2.9871
380	6.33	0.0488	0.0862	0.1484	2.9871
385	6.42	0.0491	0.0866	0.1484	2.9901
390	6.50	0.0491	0.0866	0.1484	2.9901
395	6.58	0.0500	0.0868	0.1490	2.9840

AUX SVE TEST FOUR

elapsed time (sec)	elapsed time (min)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	extr 0.0 ft (in WC)
400	6.67	0.0598	0.0970	0.1584	2.9657
405	6.75	0.0647	0.1016	0.1626	2.9932
410	6.83	0.0619	0.0985	0.1588	2.9840
415	6.92	0.0612	0.0988	0.1591	3.0054
420	7.00	0.0618	0.0987	0.1591	3.0084
425	7.08	0.0630	0.0999	0.1596	2.9749
430	7.17	0.0636	0.1005	0.1611	2.9962
435	7.25	0.0636	0.1005	0.1611	2.9962
440	7.33	0.0627	0.0992	0.1597	2.9993
445	7.42	0.0613	0.0982	0.1581	2.9596
450	7.50	0.0625	0.0998	0.1605	2.9993
455	7.58	0.0625	0.0996	0.1602	2.9932
460	7.67	0.0604	0.0975	0.1576	2.9840
465	7.75	0.0595	0.0969	0.1564	2.9810
470	7.83	0.0580	0.0950	0.1552	2.9962
475	7.92	0.0580	0.0950	0.1552	2.9962
480	8.00	0.0560	0.0930	0.1541	2.9779
485	8.08	0.0589	0.0958	0.1564	2.9901
490	8.17	0.0589	0.0958	0.1564	2.9901
495	8.25	0.0590	0.0958	0.1564	2.9688
500	8.33	0.0644	0.1014	0.1614	2.9840
505	8.42	0.0644	0.1014	0.1614	2.9840
510	8.50	0.0595	0.0967	0.1570	2.9718
515	8.58	0.0580	0.0956	0.1555	2.9840
520	8.67	0.0593	0.0963	0.1562	2.9993
525	8.75	0.0622	0.0992	0.1587	2.9779
530	8.83	0.0653	0.1025	0.1625	2.9688
535	8.92	0.0622	0.0992	0.1590	2.9840
540	9.00	0.0654	0.1025	0.1622	2.9901
545	9.08	0.0662	0.1034	0.1629	2.9993
550	9.17	0.0691	0.1056	0.1648	2.9962
555	9.25	0.0685	0.1056	0.1645	2.9840
560	9.33	0.0662	0.1033	0.1625	2.9688
565	9.42	0.0653	0.1025	0.1616	2.9749
570	9.50	0.0663	0.1037	0.1629	2.9871
575	9.58	0.0665	0.1031	0.1622	2.9779
580	9.67	0.0647	0.1019	0.1611	2.9871
585	9.75	0.0650	0.1019	0.1606	2.9688
590	9.83	0.0639	0.1008	0.1600	2.9901
595	9.92	0.0642	0.1005	0.1558	2.8009
600	10.00	0.0668	0.1040	0.1619	2.9779
660	11.00	0.0554	0.0927	0.1501	2.9779
720	12.00	0.0735	0.1101	0.1645	2.9840
780	13.00	0.0604	0.0981	0.1512	2.9871

MAXIMUM	0.0735	0.1101	0.1678	3.0145
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Measurin Point	Distance (feet)	Vacuum (In. H2O)	Ln Vacuum
MP-1	41.2	0.0735	-2.61023861
MP-2	33.8	0.1101	-2.20602115
MP-3	23	0.1678	-1.78488714

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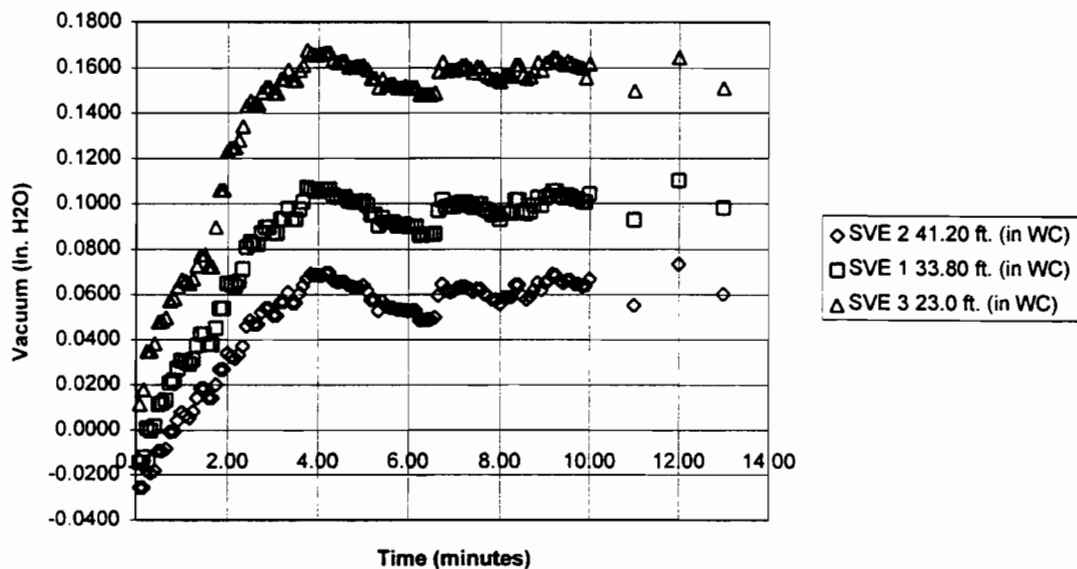
SVE Pilot Test Data

Aux SVE Test Four

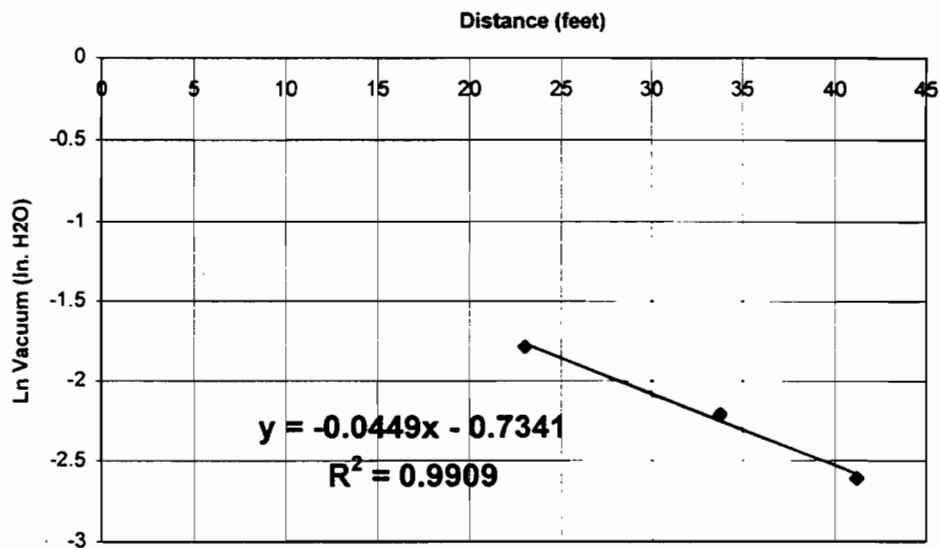
Vacuum vs Time

Ln Vacuum vs Distance

Vacuum vs Time



Ln Vacuum vs Distance



IMC Magnetics ROI, System Design Specifications
Aux SVE Test Four

Steady-State Equations

Equation of Linear Regression Through Distance vs. Ln Vacuum

Y =	M	· X +	B	"ROI"	
	-0.0449		-0.7341	34.87528	Feet

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Vacuum in SVE Well =	3.01	in. H2O	g/cm s^2
Atmospheric Pressure =	1	ATM	g/cm s^2
Well Radius =	1	inches	cm
Radius of Influence =	35	feet	cm
Extraction Rate =	41.4	CFM	cm^3/s

Air Permeability =	9.84E-07 cm^2	or	98.35647 Darcys
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Non-Steady State Equations

Screened Thickness (H) =	15	feet	conv. to: cm
Air Viscosity =	0.00018	g/cm-s (poise)	
Extraction Rate =	43.6	CFM	cm^3/s
Slope of Ln (T) vs P, well 1 =	71.08	g/cm s^2	
Slope of Ln (T) vs P, well 2 =	85.92	g/cm s^2	
Slope of Ln (T) vs P, well 3 =	114	g/cm s^2	

Air Permeability, Well 1	9.07E-06 cm^2	or	906.9572 Darcys
Air Permeability, Well 2	7.5E-06 cm^2	or	750.3086 Darcys
Air Permeability, Well 3	5.65E-06 cm^2	or	565.4958 Darcys

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■ SVE Pilot Test Data

Aux SVE Test Four

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	SVE 2 41.20 ft. (g/cm s ²)	SVE 1 33.80 ft. (g/cm s ²)	SVE 3 23.0 ft. (g/cm s ²)
5	1.61	-0.0257	-0.0145	0.0116	1013064	1013036	1012971
10	2.30	-0.0257	-0.0122	0.0180	1013064	1013030	1012955
15	2.71	-0.0180	0.0007	0.0349	1013045	1012998	1012913
20	3.00	-0.0191	-0.0003	0.0351	1013048	1013001	1012913
25	3.22	-0.0182	0.0016	0.0383	1013045	1012996	1012905
30	3.40	-0.0092	0.0114	0.0479	1013023	1012972	1012881
35	3.56	-0.0093	0.0119	0.0483	1013023	1012970	1012880
40	3.69	-0.0084	0.0132	0.0499	1013021	1012967	1012876
45	3.81	-0.0008	0.0207	0.0573	1013002	1012948	1012857
50	3.91	-0.0005	0.0219	0.0584	1013001	1012945	1012855
55	4.01	0.0042	0.0271	0.0634	1012989	1012932	1012842
60	4.09	0.0079	0.0306	0.0667	1012980	1012924	1012834
65	4.17	0.0065	0.0300	0.0660	1012984	1012925	1012836
70	4.25	0.0055	0.0293	0.0651	1012986	1012927	1012838
75	4.32	0.0081	0.0311	0.0671	1012980	1012923	1012833
80	4.38	0.0142	0.0374	0.0728	1012965	1012907	1012819
85	4.44	0.0184	0.0424	0.0776	1012954	1012895	1012807
90	4.50	0.0184	0.0424	0.0776	1012954	1012895	1012807
95	4.55	0.0142	0.0380	0.0724	1012965	1012906	1012820
100	4.61	0.0142	0.0380	0.0724	1012965	1012906	1012820
105	4.65	0.0201	0.0451	0.0897	1012950	1012888	1012777
110	4.70	0.0268	0.0538	0.1060	1012933	1012866	1012736
115	4.74	0.0268	0.0538	0.1060	1012933	1012866	1012736
120	4.79	0.0340	0.0650	0.1233	1012915	1012838	1012693
125	4.83	0.0325	0.0644	0.1248	1012919	1012840	1012689
130	4.87	0.0317	0.0639	0.1249	1012921	1012841	1012689
135	4.91	0.0334	0.0659	0.1281	1012917	1012836	1012681
140	4.94	0.0372	0.0712	0.1342	1012907	1012823	1012666
145	4.98	0.0461	0.0808	0.1433	1012885	1012799	1012643
150	5.01	0.0486	0.0831	0.1455	1012879	1012793	1012638
155	5.04	0.0470	0.0822	0.1442	1012883	1012795	1012641
160	5.08	0.0470	0.0822	0.1442	1012883	1012795	1012641
165	5.11	0.0523	0.0871	0.1494	1012870	1012783	1012628
170	5.14	0.0541	0.0895	0.1516	1012865	1012777	1012623
175	5.16	0.0541	0.0895	0.1516	1012865	1012777	1012623
180	5.19	0.0509	0.0871	0.1490	1012873	1012783	1012629
185	5.22	0.0509	0.0871	0.1490	1012873	1012783	1012629
190	5.25	0.0569	0.0932	0.1552	1012858	1012768	1012614
195	5.27	0.0569	0.0932	0.1552	1012858	1012768	1012614
200	5.30	0.0612	0.0979	0.1593	1012848	1012756	1012604
205	5.32	0.0566	0.0932	0.1545	1012859	1012768	1012615

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SVE Pilot Test Data

Aux SVE Test Four

Non-Steady State Data (ln T vs P)

elapsed time (sec)	Ln (Time)	SVE 2 41.20 ft. (in WC)	SVE 1 33.80 ft. (in WC)	SVE 3 23.0 ft. (in WC)	SVE 2 41.20 ft. (g/cm s ²)	SVE 1 33.80 ft. (g/cm s ²)	SVE 3 23.0 ft. (g/cm s ²)
215	5.37	0.0607	0.0975	0.1590	1012849	1012757	1012604
220	5.39	0.0642	0.1007	0.1613	1012840	1012749	1012599
225	5.42	0.0671	0.1071	0.1678	1012833	1012733	1012582
230	5.44	0.0692	0.1063	0.1663	1012828	1012735	1012586
235	5.46	0.0686	0.1054	0.1657	1012829	1012738	1012588
240	5.48	0.0686	0.1054	0.1657	1012829	1012738	1012588
245	5.50	0.0685	0.1062	0.1663	1012830	1012736	1012586
250	5.52	0.0697	0.1063	0.1667	1012827	1012735	1012585
255	5.54	0.0697	0.1063	0.1667	1012827	1012735	1012585
260	5.56	0.0665	0.1037	0.1637	1012835	1012742	1012593
265	5.58	0.0657	0.1028	0.1625	1012836	1012744	1012596
270	5.60	0.0659	0.1030	0.1631	1012836	1012744	1012594
275	5.62	0.0659	0.1030	0.1631	1012836	1012744	1012594
280	5.63	0.0644	0.1011	0.1605	1012840	1012748	1012601
285	5.65	0.0638	0.1008	0.1603	1012841	1012749	1012601
290	5.67	0.0631	0.1007	0.1608	1012843	1012749	1012600
295	5.69	0.0631	0.1007	0.1608	1012843	1012749	1012600
300	5.70	0.0642	0.1010	0.1611	1012840	1012749	1012599

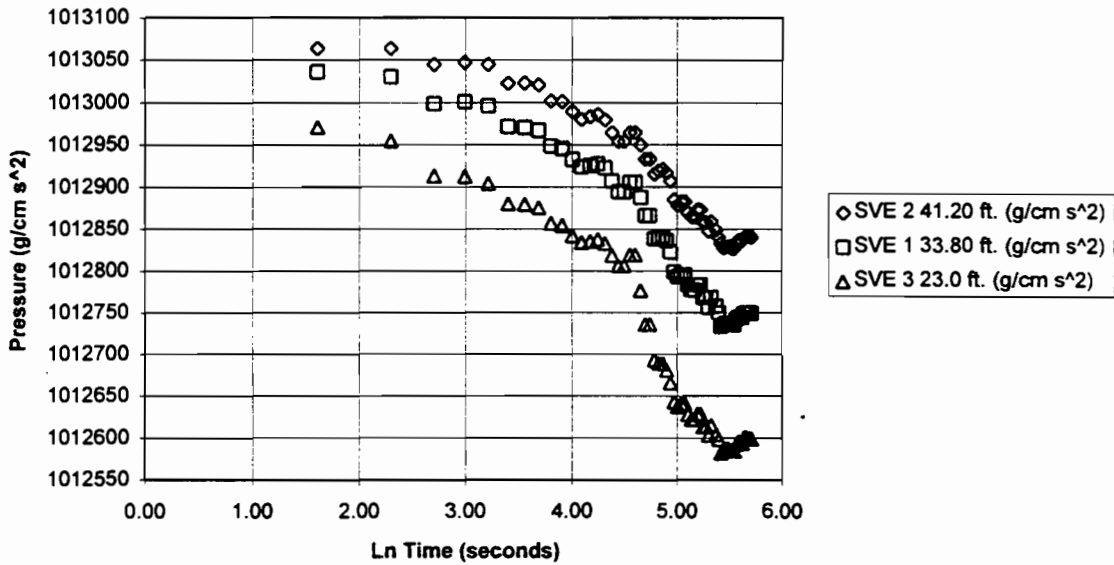
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■ SVE Pilot Test Data

Aux SVE Test Four

Non-Steady State Data (ln T vs P)

Ln Time vs Pressure



Ln Time vs Pressure

