Appendix D

Water Quality Analyses

Chloride and Specific Conductance Data
Missimer Groundwater Science Analyses

Depth (ft bls)	Chloride Mg/L)	Specific Conductance (µmhos/cm)	Date	Notes
1196-1216	750	2915		Upper major flow zone
1216-1436	740	2887	7/4/04	End of aquifer test no. 3
640-1216	740	2857	6/28/07	End of aquifer test no. 2
640 - 1618	810	3007	7/30/07	Start of aquifer test no. 4
640 - 1618	740	2788	7/30/07	End of aquifer test no. 4
640 - 1400	1040	3572	8/9/07	Sample collected at time of STL sampling
640 – 1410	900	3327	8/27/07	Start of aquifer test no. 5
640 – 1410	880	3341	8/27/07	Aquifer test no. 5 (after 3 hours)
640 – 1410	900	3383	8/27/07	End of aquifer test no. 5 (11 hours)
Dual-tube rotary drilling samples				
676	1420	5270		
696	1250	4394		
716	1120	4022		
736	1160	3868		
756	1140	3912		
756	1160	3895		
776	1200	4559		
776	1180	4388		
796	1140	3882		
796	1120	3883		
816	1100	3826		
816	1220	-		
816	1120	3833		
836	1120	3865		
856	1120	3849		
856	1130	3854		
876	1120	3855		
876	1120	3846		
896	1120	3889		
896	1110	3888		
916	1110	3887		
916	1120	3909		
936	1120	3885		
936	1120	3876		
956	1080	3840		
976	1120	2941		
996	1320	2977		
1016	740	2823		
1036	750	2849		
1056	740	2868		
1076	640	2581		
1096	630	2528		

Chloride and Specific Conductance Data
Missimer Groundwater Science Analyses

Depth (ft bls)	Chloride Mg/L)	Specific Conductance (µmhos/cm)	Date	Notes
1116	400	1860		
1116	400	-		Repeat analysis
1136	630	2554		
1156	640	2523		
1176	670	2633		
1196	720	2818		
1212	740	2908		
1236	740	2887		
1256	760	2912		
1276	730	2891		
1296	840	2910		
1316	740	2933		
1336	740	2898		
1356	750	2895		
1376	740	2900		
1396	750	2906		
1416	750	2910		
1436	760	2918		
1456	780	3019		
1466	780	3024		
1476	780	3017		
1486	790	3016		
1496	780	3030		
1506	760	2939		
1516	780	2977		
1526	850	3141		
1536	1060	3811		
1546	1120	3948		
1556	1380	4772		
1566	1700	5720		
1576	2200	7180		
1586	2720	8550		
1596	3200	9960		
1606	3560	11090		
1616	3960	12260		

Notes: Chloride concentrations were measured using the argentometric method
Specific conductance was measured using a YSI 30 salinity, conductivity, and temperature meter.

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-278-7070

LEE COUNTY
SOUTHWEST FLORIDA

To: Missimer Groundwater Science
1567 Hayley Ln Suite #202
Ft Myers FL 33907
ATTN: Robert Maliva
239-481-6494 phone

Report Date: 7/13/2007

Below are the results of samples submitted to this laboratory on: 6/21/2007

Laboratory ID	AC14292	Collection date and time	6/21/2007 11:35 AM
Location Code	MISSGWS	Sample Collector	KAPO COULIBALY
Sample Description	SB-1 @ 640- 940 ft		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CA	Calcium by flame AA	142		mg/L	0.02	6/28/2007	12:17 PM	SM20 3111 B
CAHARD	Hardness, Calcium	416		mg/L as CaCO3	2.8	7/3/2007	2:57 PM	SM21 2340 C
CL	Chloride titrimetric Argentometric	1700		mg/L	1.2	7/10/2007	3:00 PM	SM20 4500-Cl-B
COND	Specific Conductance, 25°C	3950		µmhos/cm	2	6/22/2007	5:15 PM	EPA 120.1
MG	Magnesium by flame AA	81.5		mg/L	0.1	6/28/2007	12:54 PM	SM20 3111 B
NA	Sodium, AA direct aspiration	65.2		mg/L	0.200	7/2/2007	11:20 AM	SM20 3111 B
SO4_IC	Sulfate	300		mg/L	0.05	6/25/2007	12:08 PM	EPA 300.0
TALK	Total Alkalinity	74.5		mg/L as CaCO3	2.0	7/3/2007	2:13 PM	SM20 2320 B
TDS	Total Dissolved Solids/filterable	2280		mg/L	5.5	6/28/2007	8:38 AM	SM20 2540 C
THARD	Hardness, Total, (EDTA)	612		mg/L as CaCO3	2.8	7/3/2007	2:57 PM	SM21 2340 C

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.
The results provided herein relate only to the samples cited on this report.

All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.

J. Ramos
Chemist

Report Format: NELAC
DOH #E45049

ACCREDITED IN ACCORDANCE WITH nelac

COPY

LCEL

Lab Certification: E45049

Lee County Environmental Laboratory
60-2 Danley Dr Ft Myers, FL 33907
Phone: (239) 278-7070
Fax: (239) 939-4850

Analysis Request & Chain of Custody Record

Page of

Report/Result Information	Billing/Invoice Information
Name: Robert Maliva	Name: Robert Maliva
Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202	Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202
Fort Myers, FL 33907	Fort Myers, FL 33907
Phone/Fax/Cell: (239) 481-6494	Phone/Fax/Cell: (239) 481-6494
Sample Collector(s) (please print): Kapo COULIBALY	Sample Collector Signature:

Relinquished By: (signature)	Date	Time	Received By: (signature)
	6/21/07	2:00pm	
Relinquished By: (signature)	Date	Time	Received By: (signature)
Relinquished By: (signature)	Date	Time	Received By: (signature)

Sample(s) on ice ☐ Yes or ☐ No?

Matrix Codes: DW-Drinking water; GW- Ground water; WW-Waste water; SW-Surface water; WWS-Wastewater Sludge; S-Sediment; O-Other

Preservative Codes: NP-No Preservative; N-Nitric Acid; S-Sulfuric Acid; H-Hydrochloric Acid; SH-Sodium Hydroxide; ST-Sodium Thiosulfate; O-Other

Analyses Required

Collection Date	Time			Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted	Na, Ca, Mg	Cl, alkalinity, hardness, SO4 TDS, Spec. cond.		Calcium + Total hardness					LCE Lab #
						Preservatives (see codes)									
6/21/07	11:35	AM (PM)	PM	Seminole Brighton ASR Test	water	4									
		AM	PM	Well SB-1 open 640-940'	(ground)										A014292
		AM	PM	(2 bottle with preservative, 2											
		AM	PM	without)											
		AM	PM												
		AM	PM												
		AM	PM												

1.4

COPY

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-278-7070

LEE COUNTY
SOUTHWEST FLORIDA

To: Missimer Groundwater Science
1567 Hayley Ln Suite #202
Ft Myers FL 33912
ATTN: Robert Maliva
239-481-6494 phone

Report Date: 7/13/2007

Below are the results of samples submitted to this laboratory on: 6/27/2007

Laboratory ID	AC14556	Collection date and time	6/27/2007 11:00 AM
Location Code	MISSGWS	Sample Collector	KAPO C
Sample Description	SB-1 640-1216		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CA	Calcium by flame AA	164		mg/L	0.02	6/28/2007	12:17 PM	SM20 3111 B
CL	Chloride titrimetric Argentometric	655		mg/L	1.2	7/10/2007	3:00 PM	SM20 4500-Cl-B
COND	Specific Conductance, 25°C	2720		µmhos/cm	2	6/27/2007	5:30 PM	EPA 120.1
MG	Magnesium by flame AA	74.0		mg/L	0.1	6/28/2007	12:54 PM	SM20 3111 B
NA	Sodium, AA direct aspiration	364		mg/L	0.200	7/2/2007	11:20 AM	SM20 3111 B
SO4_IC	Sulfate	376		mg/L	0.05	7/6/2007	10:10 AM	EPA 300.0
TALK	Total Alkalinity	86.3		mg/L as CaCO3	2.0	7/10/2007	9:57 AM	SM20 2320 B
TDS	Total Dissolved Solids/filterable	1750		mg/L	5.5	6/29/2007	3:07 PM	SM20 2540 C
THARD	Hardness, Total, (EDTA)	696		mg/L as CaCO3	2.8	7/10/2007	10:26 AM	SM21 2340 C

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.
The results provided herein relate only to the samples cited on this report.

All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.

J. Ramos
Chemist

Report Format: NELAC
DOH #E45049

ACCREDITED IN ACCORDANCE WITH nela

LCEL

Lab Certification: E45049

Lee County Environmental Laboratory
60-2 Danley Dr Ft Myers, FL 33907
Phone: (239) 278-7070
Fax: (239) 939-4850

Analysis Request & Chain of Custody Record

Page of

Report/Result Information	Billing/Invoice Information
Name: Robert Maliva	Name: Robert Maliva
Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202	Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202
Fort Myers, FL 33907	Fort Myers, FL 33907
Phone/Fax/Cell: (239) 481-6494	Phone/Fax/Cell: (239) 481-6494
Sample Collector(s) (please print): Kapo Coulibaly	Sample Collector Signature:

Matrix Codes:
DW-Drinking water
GW- Ground water
WW-Waste water
SW-Surface water
WWS-Wastewater Sludge
S-Sediment
O-Other

Preservative Codes:
NP-No Preservative
N-Nitric Acid
S-Sulfuric Acid
H-Hydrochloric Acid
SH-Sodium Hydroxide
ST-Sodium Thiosulfate
O-Other

Relinquished By: (signature)	Date	Time	Received By: (signature)
Kapo Coulibaly	06/27/07	3:30 pm	
Relinquished By: (signature)	Date	Time	Received By: (signature)
Relinquished By: (signature)	Date	Time	Received By: (signature)

Sample(s) on ice ☐ Yes or ☐ No?

Analyses Required

Collection Date	Collection Time			Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted	Na, Ca, Mg	Cl, alkalinity, hardness, SO4	TDS, Spec. cond.							LCE Lab #
06/27/07	11:00	AM	PM	SB1 640' - 1216'	GW	2										ACI4556
		AM	PM													
		AM	PM													
		AM	PM													
		AM	PM													
		AM	PM													
		AM	PM													

Preservatives (see codes)

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-278-7070

LEE COUNTY
SOUTHWEST FLORIDA

To: Missimer Groundwater Science
1567 Hayley Ln Suite #202
Ft Myers FL 33907
ATTN: Robert Maliva
239-481-6494 phone

Report Date: 8/1/2007

Below are the results of samples submitted to this laboratory on: 6/29/2007

Laboratory ID	AC14701	Collection date and time	6/28/2007 3:30 PM
Location Code	MISSGWS	Sample Collector	KAPO COULIBALY
Sample Description	SB-1 640'-1216' (BTL1)		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CA	Calcium by flame AA	128		mg/L	0.02	7/27/2007	12:46 PM	SM20 3111 B
MG	Magnesium by flame AA	77.0		mg/L	0.1	7/27/2007	1:15 PM	SM20 3111 B
NA	Sodium, AA direct aspiration	427		mg/L	0.200	7/2/2007	11:20 AM	SM20 3111 B

Laboratory ID	AC14702	Collection date and time	6/28/2007 3:30 PM
Location Code	MISSGWS	Sample Collector	KAPO COULIBALY
Sample Description	SB-1 640'-1216' (BLT2)		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CL	Chloride titrimetric Argentometric	694		mg/L	1.2	7/24/2007	1:10 PM	SM20 4500-Cl-B
COND	Specific Conductance, 25°C	2670		µmhos/cm	2	6/29/2007	11:00 AM	EPA 120.1
SO4_IC	Sulfate	379		mg/L	0.05	7/6/2007	10:10 AM	EPA 300.0
TALK	Total Alkalinity	92.2		mg/L as CaCO3	2.0	7/10/2007	9:57 AM	SM20 2320 B
TDS	Total Dissolved Solids/filterable	1770		mg/L	5.5	6/29/2007	3:07 PM	SM20 2540 C
THARD	Hardness, Total, (EDTA)	656		mg/L as CaCO3	2.8	7/10/2007	10:26 AM	SM21 2340 C

Report Format: NELAC
DOH #E45049

ACCREDITED IN ACCORDANCE WITH nela

Qualifiers:

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards. The results provided herein relate only to the samples cited on this report.

All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.

Keith A. Kibbey
Laboratory Manager

LCEL

Lab Certification: E45049

Lee County Environmental Laboratory
60-2 Danley Dr Ft Myers, FL 33907
Phone: (239) 278-7070
Fax: (239) 939-4850

Analysis Request & Chain of Custody Record

Page of

Report/Result Information	Billing/Invoice Information
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Fort Myers, FL 33907	Fort Myers, FL 33907
Phone/Fax/Cell: (239) 481-6494	Phone/Fax/Cell: (239) 481-6494
Sample Collector(s) (please print): Kapo Coulibaly	Sample Collector Signature:

Matrix Codes: DW-Drinking water; GW- Ground water; WW-Waste water; SW-Surface water; WWS-Wastewater Sludge; S-Sediment; O-Other

Preservative Codes: NP-No Preservative; N-Nitric Acid; S-Sulfuric Acid; H-Hydrochloric Acid; SH-Sodium Hydroxide; ST-Sodium Thiosulfate; O-Other

Relinquished By: (signature)	Date	Time	Received By: (signature)
Will J. Maliva	6/29/07	0930	
Relinquished By: (signature)	Date	Time	Received By: (signature)
Relinquished By: (signature)	Date	Time	Received By: (signature)

Sample(s) on ice ☒ Yes or ☐ No?

Analyses Required

Collection Date	Collection Time			Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted	Na, Ca, Mg	Cl, alkalinity, hardness, SO4	TDS, Spec. cond.	LCE Lab #
							Preservatives (see codes)			
06/28/07	3:30	AM	(PM)	SB 1 640'-1216'-(2)	GW	2	X			AC14701
		AM	PM	"				X	X	AC14702
		AM	PM							
		AM	PM							
		AM	PM							
		AM	PM							
		AM	PM							

NP NP

8.6

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-278-7070

LEE COUNTY
SOUTHWEST FLORIDA

To: Missimer Groundwater Science
1567 Hayley Ln Suite #202
Ft Myers FL 33912
ATTN: Robert Maliva
239-481-6494 phone

Report Date: 7/18/2007

Below are the results of samples submitted to this laboratory on: 6/26/2007

Laboratory ID	AC14470	Collection date and time	6/26/2007 3:00 PM
Location Code	MISSGWS	Sample Collector	KAPO COULIBALY
Sample Description	Seminole PT-2 900-1200		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CA	Calcium by flame AA	165		mg/L	0.02	6/28/2007	12:17 PM	SM20 3111 B
CL	Chloride titrimetric Argentometric	725		mg/L	1.2	7/17/2007	3:00 PM	SM20 4500-Cl-B
COND	Specific Conductance, 25°C	3500		µmhos/cm	2	6/27/2007	5:30 PM	EPA 120.1
MG	Magnesium by flame AA	72.4		mg/L	0.1	6/28/2007	12:54 PM	SM20 3111 B
NA	Sodium, AA direct aspiration	407		mg/L	0.200	7/2/2007	11:20 AM	SM20 3111 B
SO4_IC	Sulfate	352		mg/L	0.05	7/6/2007	10:10 AM	EPA 300.0
TALK	Total Alkalinity	78.4		mg/L as CaCO3	2.0	7/3/2007	2:13 PM	SM20 2320 B
TDS	Total Dissolved Solids/filterable	1670		mg/L	5.5	6/28/2007	8:38 AM	SM20 2540 C

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.
The results provided herein relate only to the samples cited on this report.

All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.

J. Ramos
Chemist

Report Format: NELAC
DOH #E45049

ACCREDITED IN ACCORDANCE WITH nela

LCEL

Lab Certification: E45049

Lee County Environmental Laboratory
60-2 Danley Dr Ft Myers, FL 33907
Phone: (239) 278-7070
Fax: (239) 939-4850

Analysis Request & Chain of Custody Record

Page of

Report/Result Information	Billing/Invoice Information
Name: Robert Maliva	Name: Robert Maliva
Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202	Address: Missimer Groundwater Science 1567 Hayley Lane, Suite 202
Fort Myers, FL 33907	Fort Myers, FL 33907
Phone/Fax/Cell: (239) 481-6494	Phone/Fax/Cell: (239) 481-6494
Sample Collector(s) (please print): Kapo Coulibaly	Sample Collector Signature:

Matrix Codes: DW-Drinking water; GW- Ground water; WW-Waste water; SW-Surface water; WWS-Wastewater Sludge; S-Sediment; O-Other

Preservative Codes: NP-No Preservative; N-Nitric Acid; S-Sulfuric Acid; H-Hydrochloric Acid; SH-Sodium Hydroxide; ST-Sodium Thiosulfate; O-Other

Relinquished By: (signature)	Date	Time	Received By: (signature)
[signature]	6/26/07	16:20	[signature]
Relinquished By: (signature)	Date	Time	Received By: (signature)
Relinquished By: (signature)	Date	Time	Received By: (signature)

Sample(s) on ice ☐ Yes or ☐ No?

Analyses Required

Collection Date	Time			Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted: Na, Ca, Mg	Cl, Total alkalinity, So4, TDS, Spec. cond.								LCE Lab #
						Preservatives (see codes)									
6/26	3:00	AM	(PM)	Seminole PT-2 900-1200		HNO3	—								AC14470
		AM	PM												
		AM	PM												
		AM	PM												
		AM	PM												
		AM	PM												
		AM	PM												

If you do not have enough Sample Skip alkalinity

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-278-7070

LEE COUNTY
SOUTHWEST FLORIDA

To: Missimer Groundwater Science
1567 Hayley Ln Suite #202
Ft Myers FL 33912
ATTN: Mr Robert Maliva
239-481-6494 phone

Report Date: 8/28/2007

Below are the results of samples submitted to this laboratory on: 7/18/2007

Laboratory ID	AC15556	Collection date and time	7/6/2007 2:29 PM
Location Code	MISSGWS	Sample Collector	KAPO COULIBALY
Sample Description	SB1 1216 ft - 1436 ft		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
CA	Calcium by flame AA	128		mg/L	0.02	7/27/2007	12:46 PM	SM20 3111 B
CL	Chloride titrimetric Argentometric	663	Q	mg/L	1.2	8/7/2007	9:42 AM	SM20 4500-Cl-B
COND	Specific Conductance, 25°C	3320		µmhos/cm	2	7/19/2007	5:05 PM	EPA 120.1
MG	Magnesium by flame AA	72.8		mg/L	0.1	7/27/2007	1:15 PM	SM20 3111 B
NA	Sodium, AA direct aspiration	363		mg/L	0.200	8/17/2007	10:42 AM	SM20 3111 B
SO4_IC	Sulfate	355		mg/L	0.05	7/21/2007	10:22 AM	EPA 300.0
TALK	Total Alkalinity	70.6		mg/L as CaCO3	2.0	7/20/2007	1:13 PM	SM20 2320 B
TDS	Total Dissolved Solids/filterable	1720	Q	mg/L	5.5	7/20/2007	9:11 AM	SM20 2540 C
THARD	Hardness, Total, (EDTA)	684		mg/L as CaCO3	2.8	8/1/2007	1:16 PM	SM21 2340 C

Qualifiers:

Q Sample tested beyond the accepted holding time.

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.
The results provided herein relate only to the samples cited on this report.

All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.

Keith A. Kibbey
Laboratory Manager

Report Format: NELAC
DOH #E45049

ACCREDITED IN ACCORDANCE WITH nela

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 660-17513-1

Job Description: Seminole Brighton ASR

For:
Missimer Groundwater Science
1567 Hayley Lane
Suite 202
Fort Myers, FL 33907

Attention: Mr. Bob Maliva

Designee for
Peggy Penner
Project Manager II
peggy.penner@testamericainc.com
08/27/2007
Revision: 1

Methods: FDEP, DOH Certification #: E84282, E81005 These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
EPA 140.1 samples received out of hold time. Data are flagged with Q qualifiers.

The following sample was received with insufficient preservation: SB-1. The pH was adjusted prior to preparation.

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

EPA 525.2
The method blank for batch 680-83185 contained di(2-ethylhexyl)adipate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The data are flagged with V qualifiers.

EPA 515.1
The laboratory control standard (LCS) for batch 680-82929 exceeded drinking water control limits for the following analyte: Dinoseb. Dinoseb has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The data is flagged with J3 qualifiers.

General Chemistry
Method 140.1: The following sample was received outside of holding time: SB-1.

Method 150.1: The following sample was received outside of holding time: SB-1

EXECUTIVE SUMMARY - Detections

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-17513-1	**SB-1**					
Methylene Chloride		1.9		0.50	ug/L	524.2
Di(2-ethylhexyl)adipate		0.80	I V	1.5	ug/L	525.2
Selenium		0.0088	V	0.0025	mg/L	200.8
Mercury		0.00012	I	0.00020	mg/L	245.1
Hardness as calcium carbonate		590		3.3	mg/L	SM 2340B
Specific Conductance		3900		5.0	umhos/cm	120.1
pH		6.79	Q		SU	150.1
Total Dissolved Solids		1700		17	mg/L	160.1
Chloride		1200		100	mg/L	325.2
Sulfate		330		130	mg/L	375.4
Alkalinity		71		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		71		1.0	mg/L	SM 2320B
Total Recoverable						
Barium		0.046		0.010	mg/L	200.7 Rev 4.4
Calcium		100		0.50	mg/L	200.7 Rev 4.4
Sodium		600		5.0	mg/L	200.7 Rev 4.4
Potassium		32		1.0	mg/L	200.7 Rev 4.4
Magnesium		83		0.50	mg/L	200.7 Rev 4.4
Strontium		28		0.10	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS	TAL SAV	EPA 525.2	
Determination of Semivolatile Organic Compounds in	TAL SAV		EPA 525.2
Endothall by GCMS	TAL SAV	EPA-DW 548.1	
Endothall by GCMS in Drinking Water Preparation	TAL SAV		EPA-DW 548.1
Diquat and Paraquat by HPLC	TAL SAV	EPA 549.2	
Diquat and Paraquat by HPLC (Preparation)	TAL SAV		EPA 549.2
Carbamate Pesticides in Drinking Water by HPLC	TAL SAV	EPA 531.1	
Determination of Glyphosate in Drinking Water by Direct Aqueous Inject HPLC	TAL SAV	EPA 547	
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography	TAL TAM	EPA-01 504.1	
EDB, DBCP, and 123TCP in Water by Microextraction	TAL TAM		EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD	TAL SAV	EPA 508	
Separatory funnel extraction for method 508	TAL SAV		EPA 508
Chlorinated Acids in Water by Gas Chromatography	TAL SAV	EPA-01 515.1	
Chlorinated Acids in Water by Gas Chromatography	TAL SAV		EPA-DW 515.1
ICP Metals by 200.7	TAL TAM	EPA 200.7 Rev 4.4	
Total Recoverable Metals Digestion for 200.7	TAL TAM		EPA 200.7
ICPMS Metals by 200.8	TAL SAV	EPA 200.8	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
Mercury in Water by CVAA	TAL TAM	EPA 245.1	
Digestion for CVAA Mercury in Waters	TAL TAM		EPA 245.1
Hardness by Calculation	TAL TAM	SM20 SM 2340B	
Color, Colorimetric	TAL TAM	MCAWW 110.2	
Conductivity, Specific Conductance	TAL TAM	MCAWW 120.1	
pH	TAL TAM	40CFR136A 150.1	
Total Dissolved Solids	TAL TAM	SM18 160.1	
Odor (Threshold Odor)	TAL TAM	SM18 2150B	
Chloride	TAL TAM	MCAWW 325.2	
Cyanide, Total (Semi-Automated Colorimetry)	TAL SAV	MCAWW 335.4	
Distillation/Cyanide	TAL SAV		Distillation
Nitrogen, Nitrate-Nitrite (Colorimetric, Automated, Cadmium Reduction)	TAL TAM	MCAWW 353.2	
Sulfate	TAL TAM	MCAWW 375.4	
Anionic Surfactants as MBAS	TAL TAM	EPA 425.1	
Alkalinity, Titration Method	TAL TAM	SM18 SM 2320B	
Fluoride (Ion-selective Electrode)	TAL TAM	SM18 SM 4500 F C	

METHOD SUMMARY

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Description	Lab Location	Method	Preparation Method

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

METHOD / ANALYST SUMMARY

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method	Analyst	Analyst ID
EPA-DW 524.2	Hall, Elizabeth	EH
EPA 525.2	Sokolin, Eleina	ES
EPA-DW 548.1	Sokolin, Eleina	ES
EPA 549.2	Sokolin, Eleina	ES
EPA 531.1	Brazell, Connie	CB
EPA 547	Sokolin, Eleina	ES
EPA-01 504.1	Myers, Randy	RM
EPA 508	Kellar, Joshua	JK
EPA-01 515.1	Kellar, Joshua	JK
EPA 200.7 Rev 4.4	Fox, Greg	GF
EPA 200.8	Boyuk, Brian	BB
EPA 245.1	Donathan, Mike	MD
SM20 SM 2340B	Fox, Greg	GF
MCAWW 110.2	Mostafavifar, Efe	EM
MCAWW 120.1	Johnson, Aran	AJ
40CFR136A 150.1	Mostafavifar, Efe	EM
SM18 160.1	Griffith, Kelly L	KLG
SM18 2150B	Mostafavifar, Efe	EM
MCAWW 325.2	Goldman, Mary S	MG
MCAWW 335.4	Riley, Lisa	LR
MCAWW 353.2	Steward, Tiffany	TS
MCAWW 375.4	Johnson, Amanda N	ANJ
EPA 425.1	Cerome, Saurel	SC
SM18 SM 2320B	Johnson, Aran	AJ
SM18 SM 4500 F C	Johnson, Aran	AJ

SAMPLE SUMMARY

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-17513-1	SB-1	Water	08/09/2007 1205	08/10/2007 1115

SAMPLE RESULTS

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 08/21/2007 0000
Date Prepared: N/A

Analysis Batch: 680-83476

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6126.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2,4-Trichlorobenzene	0.10	U	0.10	0.50
cis-1,2-Dichloroethene	0.25	U	0.25	0.50
Xylenes, Total	0.44	U	0.44	0.50
Methylene Chloride	1.9		0.21	0.50
1,2-Dichlorobenzene	0.23	U	0.23	0.50
1,4-Dichlorobenzene	0.17	U	0.17	0.50
Vinyl chloride	0.29	U	0.29	0.50
1,1-Dichloroethene	0.24	U	0.24	0.50
trans-1,2-Dichloroethene	0.22	U	0.22	0.50
1,2-Dichloroethane	0.19	U	0.19	0.50
1,1,1-Trichloroethane	0.16	U	0.16	0.50
Carbon tetrachloride	0.38	U	0.38	0.50
1,2-Dichloropropane	0.22	U	0.22	0.50
Trichloroethene	0.20	U	0.20	0.50
1,1,2-Trichloroethane	0.25	U	0.25	0.50
Tetrachloroethene	0.22	U	0.22	0.50
Chlorobenzene	0.19	U	0.19	0.50
Benzene	0.19	U	0.19	0.50
Toluene	0.21	U	0.21	0.50
Ethylbenzene	0.18	U	0.18	0.50
Styrene	0.30	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	87	70 - 130
4-Bromofluorobenzene	91	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 08/20/2007 1430
Date Prepared: 08/17/2007 1107

Analysis Batch: 680-83353
Prep Batch: 680-83185

Instrument ID: Mass Spec LC - R
Lab File ID: R3285.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Alachlor	0.058	U	0.058	0.19
Atrazine	0.042	U	0.042	0.19
Benzo[a]pyrene	0.024	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	0.49	U	0.49	1.9
Di(2-ethylhexyl)adipate	0.80	I V	0.49	1.5
Heptachlor	0.037	U	0.037	0.19
Heptachlor epoxide	0.088	U	0.088	0.19
Endrin	0.12	U	0.12	0.49
Hexachlorobenzene	0.031	U	0.031	0.19
Hexachlorocyclopentadiene	0.054	U	0.054	1.9
gamma-BHC (Lindane)	0.067	U	0.067	0.19
Methoxychlor	0.097	U	0.097	0.49
Simazine	0.074	U	0.074	0.49

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	101	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

548.1 Endothall by GCMS

Method: 548.1
Preparation: 548.1
Dilution: 1.0
Date Analyzed: 08/14/2007 1334
Date Prepared: 08/13/2007 1442

Analysis Batch: 680-82996
Prep Batch: 680-82764

Instrument ID: Mass Spec LC - R
Lab File ID: R3168.D
Initial Weight/Volume: 100 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Endothall	2.6	U	2.6	10

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

549.2 Diquat and Paraquat by HPLC

Method: 549.2
Preparation: 549.2
Dilution: 1.0
Date Analyzed: 08/23/2007 1018
Date Prepared: 08/13/2007 1629

Analysis Batch: 680-83689
Prep Batch: 680-82781

Instrument ID: LC - K
Lab File ID: 1K082310.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Diquat	0.092	U	0.092	5.0

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

531.1 Carbamate Pesticides in Drinking Water by HPLC

Method: 531.1
Preparation: N/A
Dilution: 1.0
Date Analyzed: 08/17/2007 2342
Date Prepared: N/A

Analysis Batch: 680-83317

Instrument ID: LC
Lab File ID: 1J081716.D
Initial Weight/Volume: mL
Final Weight/Volume: mL
Injection Volume: 400 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Oxamyl	0.25	U	0.25	2.5
Carbofuran	0.084	U	0.084	2.5

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

547 Determination of Glyphosate in Drinking Water by Direct Aqueous Inject HPLC

Method: 547
Preparation: N/A
Dilution: 1.0
Date Analyzed: 08/20/2007 2247
Date Prepared: N/A

Analysis Batch: 680-83454

Instrument ID: LC - K
Lab File ID: 1K082034.D
Initial Weight/Volume:
Final Weight/Volume: mL
Injection Volume: 100 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Glyphosate	2.7	U	2.7	25

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 08/17/2007 1101
Date Prepared: 08/16/2007 1800

Analysis Batch: 660-48944
Prep Batch: 660-48938

Instrument ID: HP 5890 Series II ECD1/2
Lab File ID: 1H16S041.D
Initial Weight/Volume: 34.0421 g
Final Weight/Volume: 3 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.021
Ethylene Dibromide	0.0089	U	0.0089	0.021

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 08/17/2007 1145
Date Prepared: 08/14/2007 0832

Analysis Batch: 680-83202
Prep Batch: 680-82805

Instrument ID: GC SemiVolatiles - M
Lab File ID: mh16058.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Aldrin	0.0085	U	0.0085	0.024
Chlordane (technical)	0.025	U	0.025	0.24
Dieldrin	0.0056	U	0.0056	0.049
Endrin	0.0088	U	0.0088	0.049
gamma-BHC (Lindane)	0.0087	U	0.0087	0.024
Heptachlor	0.0041	U	0.0041	0.024
Heptachlor epoxide	0.0042	U	0.0042	0.024
Methoxychlor	0.0089	U	0.0089	0.24
Polychlorinated biphenyls, Total	0.093	U	0.093	0.49
Toxaphene	0.24	U	0.24	2.4

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	92	70 - 130
Tetrachloro-m-xylene	85	70 - 130

Client: Missimer Groundwater Science | Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1 | Date Sampled: 08/09/2007 1205
Client Matrix: Water | Date Received: 08/10/2007 1115

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1 | Analysis Batch: 680-83315 | Instrument ID: GC SemiVolatiles - S
Preparation: 515.1 | Prep Batch: 680-82929 | Lab File ID: sh16011.d
Dilution: 1.0 | Initial Weight/Volume: 1050 mL
Date Analyzed: 08/16/2007 1746 | Final Weight/Volume: 10 mL
Date Prepared: 08/15/2007 0755 | Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4-D	0.044	U	0.044	0.48
Dalapon	0.054	U	0.054	9.5
Dinoseb	0.050	U J3	0.050	2.9
Pentachlorophenol	0.024	U	0.024	0.95
Picloram	0.095	U	0.095	0.48
Silvex (2,4,5-TP)	0.044	U	0.044	0.48

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	110	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

200.7 Rev 4.4 ICP Metals by 200.7-Total Recoverable

Method: 200.7 Rev 4.4
Preparation: 200.7
Dilution: 1.0
Date Analyzed: 08/17/2007 1216
Date Prepared: 08/16/2007 0959

Analysis Batch: 660-48833
Prep Batch: 660-48744

Instrument ID: TJA ICP TRACE
Lab File ID: 7H17A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.070	U	0.070	0.20
Barium	0.046		0.0012	0.010
Beryllium	0.00074	U	0.00074	0.0040
Cadmium	0.00071	U	0.00071	0.0050
Calcium	100		0.085	0.50
Copper	0.0029	U	0.0029	0.020
Chromium	0.0017	U	0.0017	0.010
Iron	0.022	U	0.022	0.050
Manganese	0.0014	U	0.0014	0.010
Nickel	0.0047	U	0.0047	0.040
Selenium	0.0059	U	0.0059	0.010
Silver	0.0019	U	0.0019	0.010
Zinc	0.0059	U	0.0059	0.020
Arsenic	0.0048	U	0.0048	0.010
Potassium	32		0.19	1.0
Magnesium	83		0.11	0.50

Method: 200.7 Rev 4.4
Preparation: 200.7
Dilution: 10
Date Analyzed: 08/17/2007 1304
Date Prepared: 08/16/2007 0959

Analysis Batch: 660-48833
Prep Batch: 660-48744

Instrument ID: TJA ICP TRACE
Lab File ID: 7H17A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Sodium	600		3.1	5.0
Strontium	28		0.0046	0.10

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 5.0
Date Analyzed: 08/16/2007 1249
Date Prepared: 08/15/2007 1254

Analysis Batch: 680-83111
Prep Batch: 680-82989

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Antimony	0.00041	U	0.00041	0.0025
Lead	0.00027	U	0.00027	0.0015
Thallium	0.00048	U	0.00048	0.0010
Selenium	0.0088	V	0.00080	0.0025

245.1 Mercury in Water by CVAA

Method: 245.1
Preparation: 245.1
Dilution: 1.0
Date Analyzed: 08/14/2007 1719
Date Prepared: 08/14/2007 1013

Analysis Batch: 660-48613
Prep Batch: 660-48583

Instrument ID: HydraAA Mercury
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00012	I	0.000072	0.00020

SM 2340B Hardness by Calculation

Method: SM 2340B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 08/17/2007 1324
Date Prepared: N/A

Analysis Batch: 660-48834

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	590		3.3	3.3

General Chemistry

General Chemistry

Client Sample ID: SB-1

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Chloride	1200		mg/L	40	100	20	325.2
	Anly Batch: 660-48681	Date Analyzed	08/15/2007 1313				
Cyanide	0.0050	U	mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-82736	Date Analyzed	08/13/2007 1044				
	Prep Batch: 680-82686	Date Prepared:	08/13/2007 0815				
Nitrite Nitrogen	0.10	U	mg/L	0.10	0.50	1.0	353.2
	Anly Batch: 660-48554	Date Analyzed	08/10/2007 1428				
NO3 as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
	Anly Batch: 660-48554	Date Analyzed	08/10/2007 1428				
Sulfate	330		mg/L	50	130	25	375.4
	Anly Batch: 660-48655	Date Analyzed	08/15/2007 0926				
Methylene Blue Active Substances	0.050	U	mg/l LAS	0.050	0.10	1.0	425.1
	Anly Batch: 660-48435	Date Analyzed	08/10/2007 1515				
Fluoride	0.50	U	mg/L	0.50	1.5	1.0	SM 4500 F C
	Anly Batch: 660-48572	Date Analyzed	08/13/2007 1859				

Analyte	Result	Qual	Units	Dil	Method
pH	6.79	Q	SU	1.0	150.1
	Anly Batch: 660-48442	Date Analyzed	08/10/2007 1530		

General Chemistry

Client Sample ID: **SB-1**

Lab Sample ID: 660-17513-1
Client Matrix: Water

Date Sampled: 08/09/2007 1205
Date Received: 08/10/2007 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Color	5.0	U	PCU	5.0	5.0	1.0	110.2
Anly Batch: 660-48461	Date Analyzed 08/10/2007 0952						
Specific Conductance	3900		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-48575	Date Analyzed 08/13/2007 1701						
Odor	1.0	U Q	T.O.N.	1.0	1.0	1.0	2150B
Anly Batch: 660-48460	Date Analyzed 08/10/2007 1500						
Total Dissolved Solids	1700		mg/L	17	17	1.0	160.1
Anly Batch: 660-48715	Date Analyzed 08/15/2007 1740						
Alkalinity	71		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-48571	Date Analyzed 08/13/2007 1859						
Bicarbonate Alkalinity as CaCO3	71		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-48571	Date Analyzed 08/13/2007 1859						
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-48571	Date Analyzed 08/13/2007 1859						
Hydroxide Alkalinity	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-48571	Date Analyzed 08/13/2007 1859						

DATA REPORTING QUALIFIERS

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
HPLC		
	U	Indicates that the compound was analyzed for but not detected.
GC Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DATA REPORTING QUALIFIERS

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Section	Qualifier	Description
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-83476					
LCS 680-83476/23	Lab Control Spike	T	Water	524.2	
MB 680-83476/24	Method Blank	T	Water	524.2	
660-17513-1	SB-1	T	Water	524.2	
GC/MS Semi VOA					
Prep Batch: 680-82764					
LCS 680-82764/13-A	Lab Control Spike	T	Water	548.1	
MB 680-82764/12-A	Method Blank	T	Water	548.1	
660-17513-1	SB-1	T	Water	548.1	
Prep Batch: 680-82781					
LCS 680-82781/15-A	Lab Control Spike	T	Water	549.2	
MB 680-82781/14-A	Method Blank	T	Water	549.2	
660-17513-1	SB-1	T	Water	549.2	
Analysis Batch:680-82996					
LCS 680-82764/13-A	Lab Control Spike	T	Water	548.1	680-82764
MB 680-82764/12-A	Method Blank	T	Water	548.1	680-82764
660-17513-1	SB-1	T	Water	548.1	680-82764
Prep Batch: 680-83185					
LCS 680-83185/13-A	Lab Control Spike	T	Water	525.2	
MB 680-83185/12-A	Method Blank	T	Water	525.2	
660-17513-1	SB-1	T	Water	525.2	
Analysis Batch:680-83353					
LCS 680-83185/13-A	Lab Control Spike	T	Water	525.2	680-83185
MB 680-83185/12-A	Method Blank	T	Water	525.2	680-83185
660-17513-1	SB-1	T	Water	525.2	680-83185
Analysis Batch:680-83689					
LCS 680-82781/15-A	Lab Control Spike	T	Water	549.2	680-82781
MB 680-82781/14-A	Method Blank	T	Water	549.2	680-82781
660-17513-1	SB-1	T	Water	549.2	680-82781

Report Basis
T = Total

Report Basis
T = Total

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC					
Analysis Batch:680-83317					
LCS 680-83317/2	Lab Control Spike	T	Water	531.1	
MB 680-83317/1	Method Blank	T	Water	531.1	
660-17513-1	SB-1	T	Water	531.1	
Analysis Batch:680-83454					
LCS 680-83454/2	Lab Control Spike	T	Water	547	
MB 680-83454/1	Method Blank	T	Water	547	
660-17513-1	SB-1	T	Water	547	

Report Basis
T = Total

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 660-48938					
LCS 660-48938/2-A	Lab Control Spike	T	Water	504.1	
LCSD 660-48938/3-A	Lab Control Spike Duplicate	T	Water	504.1	
MB 660-48938/1-A	Method Blank	T	Water	504.1	
660-17513-1	SB-1	T	Water	504.1	
Analysis Batch:660-48944					
LCS 660-48938/2-A	Lab Control Spike	T	Water	504.1	660-48938
LCSD 660-48938/3-A	Lab Control Spike Duplicate	T	Water	504.1	660-48938
MB 660-48938/1-A	Method Blank	T	Water	504.1	660-48938
660-17513-1	SB-1	T	Water	504.1	660-48938
Prep Batch: 680-82805					
LCS 680-82805/17-A	Lab Control Spike	T	Water	508	
LCS 680-82805/18-A	Lab Control Spike	T	Water	508	
MB 680-82805/16-A	Method Blank	T	Water	508	
660-17513-1	SB-1	T	Water	508	
Prep Batch: 680-82929					
LCS 680-82929/15-A	Lab Control Spike	T	Water	515.1	
MB 680-82929/14-A	Method Blank	T	Water	515.1	
660-17513-1	SB-1	T	Water	515.1	
Analysis Batch:680-83202					
LCS 680-82805/17-A	Lab Control Spike	T	Water	508	680-82805
LCS 680-82805/18-A	Lab Control Spike	T	Water	508	680-82805
MB 680-82805/16-A	Method Blank	T	Water	508	680-82805
660-17513-1	SB-1	T	Water	508	680-82805
Analysis Batch:680-83315					
LCS 680-82929/15-A	Lab Control Spike	T	Water	515.1	680-82929
MB 680-82929/14-A	Method Blank	T	Water	515.1	680-82929
660-17513-1	SB-1	T	Water	515.1	680-82929

Report Basis
T = Total

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 660-48583					
LCS 660-48583/2-A	Lab Control Spike	T	Water	245.1	
LCSD 660-48583/3-A	Lab Control Spike Duplicate	T	Water	245.1	
MB 660-48583/1-A	Method Blank	T	Water	245.1	
660-17513-1	SB-1	T	Water	245.1	
Analysis Batch:660-48613					
LCS 660-48583/2-A	Lab Control Spike	T	Water	245.1	660-48583
LCSD 660-48583/3-A	Lab Control Spike Duplicate	T	Water	245.1	660-48583
MB 660-48583/1-A	Method Blank	T	Water	245.1	660-48583
660-17513-1	SB-1	T	Water	245.1	660-48583
Prep Batch: 660-48744					
LCS 660-48744/2-A	Lab Control Spike	R	Water	200.7	
LCSD 660-48744/3-A	Lab Control Spike Duplicate	R	Water	200.7	
MB 660-48744/1-A	Method Blank	R	Water	200.7	
660-17513-1	SB-1	R	Water	200.7	
Analysis Batch:660-48833					
LCS 660-48744/2-A	Lab Control Spike	R	Water	200.7 Rev 4.4	660-48744
LCSD 660-48744/3-A	Lab Control Spike Duplicate	R	Water	200.7 Rev 4.4	660-48744
MB 660-48744/1-A	Method Blank	R	Water	200.7 Rev 4.4	660-48744
660-17513-1	SB-1	R	Water	200.7 Rev 4.4	660-48744
Analysis Batch:660-48834					
660-17513-1	SB-1	T	Water	SM 2340B	
Prep Batch: 680-82989					
LCS 680-82989/16-A	Lab Control Spike	T	Water	200	
MB 680-82989/17-A	Method Blank	T	Water	200	
660-17513-1	SB-1	T	Water	200	
Analysis Batch:680-83111					
LCS 680-82989/16-A	Lab Control Spike	T	Water	200.8	680-82989
MB 680-82989/17-A	Method Blank	T	Water	200.8	680-82989
660-17513-1	SB-1	T	Water	200.8	680-82989

Report Basis
R = Total Recoverable
T = Total

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-48435					
LCS 660-48435/2	Lab Control Spike	T	Water	425.1	
LCSD 660-48435/3	Lab Control Spike Duplicate	T	Water	425.1	
MB 660-48435/1	Method Blank	T	Water	425.1	
660-17513-1	SB-1	T	Water	425.1	
Analysis Batch:660-48442					
LCS 660-48442/1	Lab Control Spike	T	Water	150.1	
660-17513-1	SB-1	T	Water	150.1	
Analysis Batch:660-48460					
MB 660-48460/1	Method Blank	T	Water	2150B	
660-17513-1	SB-1	T	Water	2150B	
Analysis Batch:660-48461					
LCS 660-48461/2	Lab Control Spike	T	Water	110.2	
LCSD 660-48461/3	Lab Control Spike Duplicate	T	Water	110.2	
MB 660-48461/1	Method Blank	T	Water	110.2	
660-17513-1	SB-1	T	Water	110.2	
Analysis Batch:660-48554					
LCS 660-48554/2	Lab Control Spike	T	Water	353.2	
LCSD 660-48554/3	Lab Control Spike Duplicate	T	Water	353.2	
MB 660-48554/1	Method Blank	T	Water	353.2	
660-17513-1	SB-1	T	Water	353.2	
Analysis Batch:660-48571					
LCS 660-48571/2	Lab Control Spike	T	Water	SM 2320B	
LCSD 660-48571/3	Lab Control Spike Duplicate	T	Water	SM 2320B	
MB 660-48571/1	Method Blank	T	Water	SM 2320B	
660-17513-1	SB-1	T	Water	SM 2320B	
Analysis Batch:660-48572					
LCS 660-48572/2	Lab Control Spike	T	Water	SM 4500 F C	
LCSD 660-48572/3	Lab Control Spike Duplicate	T	Water	SM 4500 F C	
MB 660-48572/1	Method Blank	T	Water	SM 4500 F C	
660-17513-1	SB-1	T	Water	SM 4500 F C	
Analysis Batch:660-48575					
LCS 660-48575/2	Lab Control Spike	T	Water	120.1	
LCSD 660-48575/3	Lab Control Spike Duplicate	T	Water	120.1	
MB 660-48575/1	Method Blank	T	Water	120.1	
660-17513-1	SB-1	T	Water	120.1	

Client: Missimer Groundwater Science

Job Number: 660-17513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-48655					
LCS 660-48655/13	Lab Control Spike	T	Water	375.4	
LCSD 660-48655/14	Lab Control Spike Duplicate	T	Water	375.4	
MB 660-48655/12	Method Blank	T	Water	375.4	
660-17513-1	SB-1	T	Water	375.4	
Analysis Batch:660-48681					
LCS 660-48681/2	Lab Control Spike	T	Water	325.2	
LCSD 660-48681/3	Lab Control Spike Duplicate	T	Water	325.2	
MB 660-48681/1	Method Blank	T	Water	325.2	
660-17513-1	SB-1	T	Water	325.2	
Analysis Batch:660-48715					
LCS 660-48715/2	Lab Control Spike	T	Water	160.1	
LCSD 660-48715/3	Lab Control Spike Duplicate	T	Water	160.1	
MB 660-48715/1	Method Blank	T	Water	160.1	
660-17513-1	SB-1	T	Water	160.1	
Prep Batch: 680-82686					
LCS 680-82686/2-A	Lab Control Spike	T	Water	Distillation	
LCSD 680-82686/3-A	Lab Control Spike Duplicate	T	Water	Distillation	
MB 680-82686/1-A	Method Blank	T	Water	Distillation	
660-17513-1	SB-1	T	Water	Distillation	
Analysis Batch:680-82736					
LCS 680-82686/2-A	Lab Control Spike	T	Water	335.4	680-82686
LCSD 680-82686/3-A	Lab Control Spike Duplicate	T	Water	335.4	680-82686
MB 680-82686/1-A	Method Blank	T	Water	335.4	680-82686
660-17513-1	SB-1	T	Water	335.4	680-82686

Report Basis
T = Total

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-83476/23		99	97
MB 680-83476/24		88	91
660-17513-1	SB-1	87	91

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	TPP %Rec
LCS 680-83185/13-A		104
MB 680-83185/12-A		104
660-17513-1	SB-1	101

Surrogate		Acceptance Limits
TPP	Triphenylphosphate	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec
LCS 680-82805/17-A			81	83
LCS 680-82805/18-A		118		108
MB 680-82805/16-A			89	91
660-17513-1	SB-1		92	85

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
TCX	Tetrachloro-m-xylene	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
LCS 680-82929/15-A			89
MB 680-82929/14-A		111	
660-17513-1	SB-1		110

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-83476

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-83476/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 2339
Date Prepared: N/A

Analysis Batch: 680-83476
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2107.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
1,2,4-Trichlorobenzene	0.10	U	0.10	0.50
cis-1,2-Dichloroethene	0.25	U	0.25	0.50
Xylenes, Total	0.44	U	0.44	0.50
Methylene Chloride	0.21	U	0.21	0.50
1,2-Dichlorobenzene	0.23	U	0.23	0.50
1,4-Dichlorobenzene	0.17	U	0.17	0.50
Vinyl chloride	0.29	U	0.29	0.50
1,1-Dichloroethene	0.24	U	0.24	0.50
trans-1,2-Dichloroethene	0.22	U	0.22	0.50
1,2-Dichloroethane	0.19	U	0.19	0.50
1,1,1-Trichloroethane	0.16	U	0.16	0.50
Carbon tetrachloride	0.38	U	0.38	0.50
1,2-Dichloropropane	0.22	U	0.22	0.50
Trichloroethene	0.20	U	0.20	0.50
1,1,2-Trichloroethane	0.25	U	0.25	0.50
Tetrachloroethene	0.22	U	0.22	0.50
Chlorobenzene	0.19	U	0.19	0.50
Benzene	0.19	U	0.19	0.50
Toluene	0.21	U	0.21	0.50
Ethylbenzene	0.18	U	0.18	0.50
Styrene	0.30	U	0.30	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	91	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Control Spike - Batch: 680-83476

Method: 524.2
Preparation: N/A

Lab Sample ID: LCS 680-83476/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 2258
Date Prepared: N/A

Analysis Batch: 680-83476
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2106.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	20.0	19.2	96	70 - 130	
cis-1,2-Dichloroethene	20.0	18.6	93	70 - 130	
Xylenes, Total	60.0	59.2	99	70 - 130	
Methylene Chloride	20.0	19.0	95	70 - 130	
1,2-Dichlorobenzene	20.0	19.7	98	70 - 130	
1,4-Dichlorobenzene	20.0	19.7	99	70 - 130	
Vinyl chloride	20.0	20.4	102	70 - 130	
1,1-Dichloroethene	20.0	20.8	104	70 - 130	
trans-1,2-Dichloroethene	20.0	19.9	100	70 - 130	
1,2-Dichloroethane	20.0	22.4	112	70 - 130	
1,1,1-Trichloroethane	20.0	21.1	105	70 - 130	
Carbon tetrachloride	20.0	21.1	105	70 - 130	
1,2-Dichloropropane	20.0	19.3	96	70 - 130	
1,1,2-Trichloroethane	20.0	19.8	99	70 - 130	
Tetrachloroethene	20.0	20.0	100	70 - 130	
Chlorobenzene	20.0	19.0	95	70 - 130	
Benzene	20.0	19.2	96	70 - 130	
Toluene	20.0	18.6	93	70 - 130	
Ethylbenzene	20.0	19.7	99	70 - 130	
Styrene	20.0	20.2	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	99	70 - 130
4-Bromofluorobenzene	97	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-83185

Method: 525.2
Preparation: 525.2

Lab Sample ID: MB 680-83185/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 1407
Date Prepared: 08/17/2007 1107

Analysis Batch: 680-83353
Prep Batch: 680-83185
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R3284.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Alachlor	0.060	U	0.060	0.20
Atrazine	0.043	U	0.043	0.20
Benzo[a]pyrene	0.025	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	0.50	U	0.50	2.0
Di(2-ethylhexyl)adipate	0.58	I	0.50	1.5
Heptachlor	0.038	U	0.038	0.20
Heptachlor epoxide	0.091	U	0.091	0.20
Endrin	0.12	U	0.12	0.50
Hexachlorobenzene	0.032	U	0.032	0.20
Hexachlorocyclopentadiene	0.056	U	0.056	2.0
gamma-BHC (Lindane)	0.069	U	0.069	0.20
Methoxychlor	0.10	U	0.10	0.50
Simazine	0.076	U	0.076	0.50

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	104	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Control Spike - Batch: 680-83185

Method: 525.2
Preparation: 525.2

Lab Sample ID: LCS 680-83185/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 1130
Date Prepared: 08/17/2007 1107

Analysis Batch: 680-83353
Prep Batch: 680-83185
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R3271.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bis(2-ethylhexyl) phthalate	5.00	4.84	97	70 - 130	
Di(2-ethylhexyl)adipate	5.00	5.59	112	70 - 130	V
Heptachlor	5.00	4.53	91	70 - 130	
Heptachlor epoxide	5.00	4.38	88	70 - 130	
Endrin	5.00	4.20	84	70 - 130	
Hexachlorobenzene	5.00	4.67	93	70 - 130	
Hexachlorocyclopentadiene	5.00	4.01	80	70 - 130	
gamma-BHC (Lindane)	5.00	4.92	98	70 - 130	
Methoxychlor	5.00	5.04	101	70 - 130	
Simazine	5.00	3.62	72	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	104	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82764

Method: 548.1
Preparation: 548.1

Lab Sample ID: MB 680-82764/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1149
Date Prepared: 08/13/2007 1442

Analysis Batch: 680-82996
Prep Batch: 680-82764
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R3159.D
Initial Weight/Volume: 100 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Endothall	2.6	U	2.6	10

Lab Control Spike - Batch: 680-82764

Method: 548.1
Preparation: 548.1

Lab Sample ID: LCS 680-82764/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1123
Date Prepared: 08/13/2007 1442

Analysis Batch: 680-82996
Prep Batch: 680-82764
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R3158.D
Initial Weight/Volume: 100 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Endothall	25.0	15.8	63	60 - 140	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82781

Method: 549.2
Preparation: 549.2

Lab Sample ID: MB 680-82781/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/23/2007 0954
Date Prepared: 08/13/2007 1629

Analysis Batch: 680-83689
Prep Batch: 680-82781
Units: ug/L

Instrument ID: LC - K
Lab File ID: 1K082308.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Diquat	0.092	U	0.092	5.0

Lab Control Spike - Batch: 680-82781

Method: 549.2
Preparation: 549.2

Lab Sample ID: LCS 680-82781/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/23/2007 1006
Date Prepared: 08/13/2007 1629

Analysis Batch: 680-83689
Prep Batch: 680-82781
Units: ug/L

Instrument ID: LC - K
Lab File ID: 1K082309.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diquat	20.0	21.7	109	70 - 130	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-83317

Method: 531.1
Preparation: N/A

Lab Sample ID: MB 680-83317/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 2139
Date Prepared: N/A

Analysis Batch: 680-83317
Prep Batch: N/A
Units: ug/L

Instrument ID: LC
Lab File ID: 1J081713.D
Initial Weight/Volume: mL
Final Weight/Volume: mL
Injection Volume: 400 uL

Analyte	Result	Qual	MDL	PQL
Oxamyl	0.25	U	0.25	2.5
Carbofuran	0.084	U	0.084	2.5

Lab Control Spike - Batch: 680-83317

Method: 531.1
Preparation: N/A

Lab Sample ID: LCS 680-83317/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 2220
Date Prepared: N/A

Analysis Batch: 680-83317
Prep Batch: N/A
Units: ug/L

Instrument ID: LC
Lab File ID: 1J081714.D
Initial Weight/Volume: mL
Final Weight/Volume: 10 mL
Injection Volume: 400 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oxamyl	10.0	9.53	95	80 - 120	
Carbofuran	10.0	9.38	94	80 - 120	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-83454

Method: 547
Preparation: N/A

Lab Sample ID: MB 680-83454/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 1825
Date Prepared: N/A

Analysis Batch: 680-83454
Prep Batch: N/A
Units: ug/L

Instrument ID: LC - K
Lab File ID: 1K082020.D
Initial Weight/Volume:
Final Weight/Volume: mL
Injection Volume: 100 uL

Analyte	Result	Qual	MDL	PQL
Glyphosate	2.7	U	2.7	25

Lab Control Spike - Batch: 680-83454

Method: 547
Preparation: N/A

Lab Sample ID: LCS 680-83454/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/20/2007 1844
Date Prepared: N/A

Analysis Batch: 680-83454
Prep Batch: N/A
Units: ug/L

Instrument ID: LC - K
Lab File ID: 1K082021.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 100 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Glyphosate	200	225	112	70 - 130	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48938

Method: 504.1
Preparation: 504.1

Lab Sample ID: MB 660-48938/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0038
Date Prepared: 08/16/2007 1800

Analysis Batch: 660-48944
Prep Batch: 660-48938
Units: ug/L

Instrument ID: HP 5890 Series II ECD1/2
Lab File ID: 1H16S014.D
Initial Weight/Volume: 33.1009 g
Final Weight/Volume: 3 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.011	U	0.011	0.021
Ethylene Dibromide	0.0092	U	0.0092	0.021

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48938

Method: 504.1
Preparation: 504.1

LCS Lab Sample ID: LCS 660-48938/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0101
Date Prepared: 08/16/2007 1800

Analysis Batch: 660-48944
Prep Batch: 660-48938
Units: ug/L

Instrument ID: HP 5890 Series II ECD1/2
Lab File ID: 1H16S015.D
Initial Weight/Volume: 34.277 g
Final Weight/Volume: 3 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 660-48938/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0124
Date Prepared: 08/16/2007 1800

Analysis Batch: 660-48944
Prep Batch: 660-48938
Units: ug/L

Instrument ID: HP 5890 Series II ECD1/2
Lab File ID: 1H16S016.D
Initial Weight/Volume: 33.3 g
Final Weight/Volume: 3 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dibromo-3-Chloropropane	112	121	70 - 130	10	30		
Ethylene Dibromide	99	105	70 - 130	9	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82805

Method: 508
Preparation: 508

Lab Sample ID: MB 680-82805/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0751
Date Prepared: 08/14/2007 0832

Analysis Batch: 680-83202
Prep Batch: 680-82805
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mh16044.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Aldrin	0.0088	U	0.0088	0.025
Chlordane (technical)	0.026	U	0.026	0.25
Dieldrin	0.0058	U	0.0058	0.050
Endrin	0.0091	U	0.0091	0.050
gamma-BHC (Lindane)	0.0090	U	0.0090	0.025
Heptachlor	0.0042	U	0.0042	0.025
Heptachlor epoxide	0.0043	U	0.0043	0.025
Methoxychlor	0.0092	U	0.0092	0.25
Polychlorinated biphenyls, Total	0.096	U	0.096	0.50
Toxaphene	0.25	U	0.25	2.5

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	89	70 - 130
Tetrachloro-m-xylene	91	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Control Spike - Batch: 680-82805

Method: 508
Preparation: 508

Lab Sample ID: LCS 680-82805/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0811
Date Prepared: 08/14/2007 0832

Analysis Batch: 680-83202
Prep Batch: 680-82805
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mh16045.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aldrin	0.103	0.0789	77	70 - 130	
Dieldrin	0.200	0.165	83	70 - 130	
Endrin	0.203	0.190	94	70 - 130	
gamma-BHC (Lindane)	0.100	0.0857	86	70 - 130	
Heptachlor	0.100	0.0826	83	70 - 130	
Heptachlor epoxide	0.100	0.0849	85	70 - 130	
Methoxychlor	0.201	0.248	123	70 - 130	I

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	81	70 - 130

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	118	70 - 130

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82929

Method: 515.1
Preparation: 515.1

Lab Sample ID: MB 680-82929/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/16/2007 1600
Date Prepared: 08/15/2007 0755

Analysis Batch: 680-83315
Prep Batch: 680-82929
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sh16006.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
2,4-D	0.046	U	0.046	0.50
Dalapon	0.057	U	0.057	10
Dinoseb	0.052	U	0.052	3.0
Pentachlorophenol	0.025	U	0.025	1.0
Picloram	0.10	U	0.10	0.50
Silvex (2,4,5-TP)	0.046	U	0.046	0.50

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	111	70 - 130

Lab Control Spike - Batch: 680-82929

Method: 515.1
Preparation: 515.1

Lab Sample ID: LCS 680-82929/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/16/2007 1621
Date Prepared: 08/15/2007 0755

Analysis Batch: 680-83315
Prep Batch: 680-82929
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sh16007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	2.00	2.13	107	70 - 130	
Dalapon	2.00	1.51	75	70 - 130	I
Dinoseb	2.00	0.777	39	70 - 130	I J3
Pentachlorophenol	1.00	0.749	75	70 - 130	I
Picloram	2.00	1.49	75	70 - 130	
Silvex (2,4,5-TP)	2.00	1.83	92	70 - 130	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48744

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: MB 660-48744/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0921
Date Prepared: 08/16/2007 0959

Analysis Batch: 660-48833
Prep Batch: 660-48744
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 7H17A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.070	U	0.070	0.20
Barium	0.0012	U	0.0012	0.010
Beryllium	0.00074	U	0.00074	0.0040
Cadmium	0.00071	U	0.00071	0.0050
Calcium	0.085	U	0.085	0.50
Chromium	0.0017	U	0.0017	0.010
Copper	0.0029	U	0.0029	0.020
Iron	0.022	U	0.022	0.050
Manganese	0.0014	U	0.0014	0.010
Nickel	0.0047	U	0.0047	0.040
Selenium	0.0059	U	0.0059	0.010
Silver	0.0019	U	0.0019	0.010
Sodium	0.31	U	0.31	0.50
Zinc	0.0059	U	0.0059	0.020
Arsenic	0.0048	U	0.0048	0.010
Potassium	0.19	U	0.19	1.0
Magnesium	0.11	U	0.11	0.50
Strontium	0.00046	U	0.00046	0.010

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48744

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

LCS Lab Sample ID: LCS 660-48744/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0927
Date Prepared: 08/16/2007 0959

Analysis Batch: 660-48833
Prep Batch: 660-48744
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 7H17A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 660-48744/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2007 0933
Date Prepared: 08/16/2007 0959

Analysis Batch: 660-48833
Prep Batch: 660-48744
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 7H17A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	106	106	85 - 115	0	20		
Barium	102	103	85 - 115	0	20		
Beryllium	104	104	85 - 115	1	20		
Cadmium	103	104	85 - 115	1	20		
Calcium	105	106	85 - 115	0	20		
Chromium	103	104	85 - 115	1	20		
Copper	102	103	85 - 115	0	20		
Iron	105	105	85 - 115	0	20		
Manganese	104	105	85 - 115	1	20		
Nickel	106	107	85 - 115	1	20		
Selenium	103	104	85 - 115	1	20		
Silver	102	102	85 - 115	1	20		
Sodium	105	105	85 - 115	0	20		
Zinc	104	105	85 - 115	1	20		
Arsenic	102	103	85 - 115	1	20		
Potassium	95	96	85 - 115	0	20		
Magnesium	102	102	85 - 115	0	20		
Strontium	104	104	85 - 115	0	20		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82989

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-82989/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/16/2007 0900
Date Prepared: 08/15/2007 1254

Analysis Batch: 680-83111
Prep Batch: 680-82989
Units: mg/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Antimony	0.000082	U	0.000082	0.00050
Lead	0.000054	U	0.000054	0.00030
Thallium	0.000096	U	0.000096	0.00020
Selenium	0.00025	I	0.00016	0.00050

Lab Control Spike - Batch: 680-82989

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-82989/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/16/2007 0855
Date Prepared: 08/15/2007 1254

Analysis Batch: 680-83111
Prep Batch: 680-82989
Units: mg/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.0500	0.0507	101	85 - 115	
Lead	0.0500	0.0535	107	85 - 115	
Thallium	0.0100	0.0103	103	85 - 115	
Selenium	0.0500	0.0479	96	85 - 115	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48583

Method: 245.1
Preparation: 245.1

Lab Sample ID: MB 660-48583/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 0947
Date Prepared: 08/14/2007 1013

Analysis Batch: 660-48613
Prep Batch: 660-48583
Units: mg/L

Instrument ID: HydraAA Mercury Analyzer
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48583

Method: 245.1
Preparation: 245.1

LCS Lab Sample ID: LCS 660-48583/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1633
Date Prepared: 08/14/2007 1013

Analysis Batch: 660-48613
Prep Batch: 660-48583
Units: mg/L

Instrument ID: HydraAA Mercury Analyzer
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

LCSD Lab Sample ID: LCSD 660-48583/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1635
Date Prepared: 08/14/2007 1013

Analysis Batch: 660-48613
Prep Batch: 660-48583
Units: mg/L

Instrument ID: HydraAA Mercury Analyz
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	98	95	85 - 115	3	20		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48461

Method: 110.2
Preparation: N/A

Lab Sample ID: MB 660-48461/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 0952
Date Prepared: N/A

Analysis Batch: 660-48461
Prep Batch: N/A
Units: PCU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Color	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48461

Method: 110.2
Preparation: N/A

LCS Lab Sample ID: LCS 660-48461/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 0952
Date Prepared: N/A

Analysis Batch: 660-48461
Prep Batch: N/A
Units: PCU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 660-48461/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 0952
Date Prepared: N/A

Analysis Batch: 660-48461
Prep Batch: N/A
Units: PCU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Color	100	100	80 - 120	0	40		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48575

Method: 120.1
Preparation: N/A

Lab Sample ID: MB 660-48575/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1701
Date Prepared: N/A

Analysis Batch: 660-48575
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	PQL	PQL
Specific Conductance	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48575

Method: 120.1
Preparation: N/A

LCS Lab Sample ID: LCS 660-48575/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1701
Date Prepared: N/A

Analysis Batch: 660-48575
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 660-48575/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1701
Date Prepared: N/A

Analysis Batch: 660-48575
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Specific Conductance	96	97	90 - 110	0	10		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Lab Control Spike - Batch: 660-48442

Method: 150.1
Preparation: N/A

Lab Sample ID: LCS 660-48442/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1530
Date Prepared: N/A

Analysis Batch: 660-48442
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.00	5.990	100	98 - 102	

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48715

Method: 160.1
Preparation: N/A

Lab Sample ID: MB 660-48715/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1740
Date Prepared: N/A

Analysis Batch: 660-48715
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48715

Method: 160.1
Preparation: N/A

LCS Lab Sample ID: LCS 660-48715/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1740
Date Prepared: N/A

Analysis Batch: 660-48715
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 660-48715/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1740
Date Prepared: N/A

Analysis Batch: 660-48715
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids	99	99	80 - 120	0	25		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48460

Method: 2150B
Preparation: N/A

Lab Sample ID: MB 660-48460/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1500
Date Prepared: N/A

Analysis Batch: 660-48460
Prep Batch: N/A
Units: T.O.N.

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Result	Qual	PQL	PQL
Odor	1.0	U	1.0	1.0

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48681

Method: 325.2
Preparation: N/A

Lab Sample ID: MB 660-48681/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1136
Date Prepared: N/A

Analysis Batch: 660-48681
Prep Batch: N/A
Units: mg/L

Instrument ID: Seal Analyzer
Lab File ID: N/A
Initial Weight/Volume: mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Chloride	2.0	U	2.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48681

Method: 325.2
Preparation: N/A

LCS Lab Sample ID: LCS 660-48681/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1137
Date Prepared: N/A

Analysis Batch: 660-48681
Prep Batch: N/A
Units: mg/L

Instrument ID: Seal Analyzer
Lab File ID: N/A
Initial Weight/Volume: mL
Final Weight/Volume: 2 mL

LCSD Lab Sample ID: LCSD 660-48681/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 1138
Date Prepared: N/A

Analysis Batch: 660-48681
Prep Batch: N/A
Units: mg/L

Instrument ID: Seal Analyzer
Lab File ID: N/A
Initial Weight/Volume: mL
Final Weight/Volume: 2 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	103	105	90 - 110	3	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 680-82686

Method: 335.4
Preparation: Distillation

Lab Sample ID: MB 680-82686/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1033
Date Prepared: 08/13/2007 0815

Analysis Batch: 680-82736
Prep Batch: 680-82686
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Cyanide	0.0050	U	0.0050	0.010

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-82686

Method: 335.4
Preparation: Distillation

LCS Lab Sample ID: LCS 680-82686/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1034
Date Prepared: 08/13/2007 0815

Analysis Batch: 680-82736
Prep Batch: 680-82686
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-82686/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1034
Date Prepared: 08/13/2007 0815

Analysis Batch: 680-82736
Prep Batch: 680-82686
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide	105	101	90 - 110	3	20		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48554

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-48554/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1428
Date Prepared: N/A

Analysis Batch: 660-48554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrite Nitrogen	0.10	U	0.10	0.50
NO3 as N	0.10	U	0.10	0.50

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48554

Method: 353.2
Preparation: N/A

LCS Lab Sample ID: LCS 660-48554/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1428
Date Prepared: N/A

Analysis Batch: 660-48554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 660-48554/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1428
Date Prepared: N/A

Analysis Batch: 660-48554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrite Nitrogen	103	105	90 - 110	2	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48655

Method: 375.4
Preparation: N/A

Lab Sample ID: MB 660-48655/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 0926
Date Prepared: N/A

Analysis Batch: 660-48655
Prep Batch: N/A
Units: mg/L

Instrument ID: Wet Chemistry Turbidimete
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	2.0	U	2.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48655

Method: 375.4
Preparation: N/A

LCS Lab Sample ID: LCS 660-48655/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 0926
Date Prepared: N/A

Analysis Batch: 660-48655
Prep Batch: N/A
Units: mg/L

Instrument ID: Wet Chemistry Turbidimete
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 660-48655/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/15/2007 0926
Date Prepared: N/A

Analysis Batch: 660-48655
Prep Batch: N/A
Units: mg/L

Instrument ID: Wet Chemistry Turbidime
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Sulfate	106	114	75 - 125	7	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48435

Method: 425.1
Preparation: N/A

Lab Sample ID: MB 660-48435/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1515
Date Prepared: N/A

Analysis Batch: 660-48435
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	PQL
Methylene Blue Active Substances	0.050	U	0.050	0.10

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48435

Method: 425.1
Preparation: N/A

LCS Lab Sample ID: LCS 660-48435/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1515
Date Prepared: N/A

Analysis Batch: 660-48435
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 660-48435/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2007 1515
Date Prepared: N/A

Analysis Batch: 660-48435
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methylene Blue Active Substances	91	83	80 - 120	9	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48571

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 660-48571/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1729
Date Prepared: N/A

Analysis Batch: 660-48571
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0
Bicarbonate Alkalinity as CaCO3	1.0	U	1.0	1.0
Carbonate Alkalinity as CaCO3	1.0	U	1.0	1.0
Hydroxide Alkalinity	1.0	U	1.0	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48571

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 660-48571/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1737
Date Prepared: N/A

Analysis Batch: 660-48571
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 660-48571/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1745
Date Prepared: N/A

Analysis Batch: 660-48571
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity	101	100	80 - 120	0	30		

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

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Method Blank - Batch: 660-48572

Method: SM 4500 F C
Preparation: N/A

Lab Sample ID: MB 660-48572/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1757
Date Prepared: N/A

Analysis Batch: 660-48572
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Fluoride	0.50	U	0.50	1.5

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-48572

Method: SM 4500 F C
Preparation: N/A

LCS Lab Sample ID: LCS 660-48572/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1759
Date Prepared: N/A

Analysis Batch: 660-48572
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 660-48572/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2007 1801
Date Prepared: N/A

Analysis Batch: 660-48572
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Fluoride	95	96	85 - 115	1	30	I	I

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

Serial Number 44262

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SEMINOLE BRIGHTON ASR	0050-0093	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: BOB MALIVA	CLIENT PHONE: (239) 481-6494	CLIENT FAX: (239) 481-6393
CLIENT NAME: MISSIMER GROUNDWATER SCIENCE	CLIENT E-MAIL: rmaliva@slb.com	
CLIENT ADDRESS: 1567 HAYLEY LANE, SUITE 202, FT MYERS, FL 33907		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY X
DATE DUE 8/21/07
EXPEDITED REPORT DELIVERY (SURCHARGE) O
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 548.1	508	549.2	140.1 - Odor	245.1 Merc. 200.7 Metal Hardness	200.8 Metals	2° standards NO2, NO3	425.1	335.4 CN	515.1	REMARKS
								NA	NA	NA	—	HNO3	HNO3	—	—	NA	NA Soil	
								NUMBER OF CONTAINERS SUBMITTED										
8/9/07	12:05	SB-1	G	X				2	2	1	1	1	1	2	1	1	2	Note 1 1L Amber was broken, Additional 1L Plastic unpreserved was included

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/16/07	7:30		8/9/07	2:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	8/16/07	8:31 am						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES O NO O	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS
	8-16-07	1115			660-17513	4° cooler Temp

STL8240-660 (12/02)

Serial Number 44261

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SEMINOLE BRIGHTON ASR	0050 - 0093	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: BOB MALIVA	CLIENT PHONE: (239) 481-6494	CLIENT FAX: (239) 481-6393
CLIENT NAME: MISSIMER GROUNDWATER SCIENCE	CLIENT E-MAIL: rmaliva@slb.com	
CLIENT ADDRESS: 1567 HAYLEY LANE, SUITE 202, FT MYERS, FL 33907		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ☒
DATE DUE 5/21/07
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 252.2	524.2	547	504.1	531.1						NUMBER OF CONTAINERS SUBMITTED	REMARKS
								NA 504	NA	NA 6	PRESERVATIVE	MCAA NA							
8/9/07	12:05	SB-1	G	X														2 3 2 3 2	

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/9/07	17:30		8/9/07	3:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	8/9/07	5:21 pm						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS
	8/9/07	1115			660-	4° cooler temp

STL8240-660 (12/02)

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Missimer Groundwater Science

Job Number: 660-17513-1

Login Number: 17513

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	odor recd out of hold
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	549 pres upon receipt,2nd pg coc shows 252.2-should be 525
Sample bottles are completely filled.	True	1lt for 525 plastic jar-poured in lt amber /preserved
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	