



Field Colorimetry
Data Form
WATER SAMPLES

Analyst: Pac
Date: 31 July 2003
Checked by: Pac
Site Name: Raytheon Wayland
Project Number: 1922.04.02
Project Manager: Pac

Sample Name	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO ₄ (ppm)	Concentration as NaMnO ₄ (ppm)	Concentration as NaMnO ₄ (%)	Notes
MW-106	7/29/2003	Ice only	Clear	0.3	1	< 1	-	-	Trace MnO ₂ sediment
MW-106M	7/29/2003	Ice only	Dark purple	15.7	100	1,570	1,410	0.14	
MW-212	7/29/2003	Ice only	Clear	0.0	1	ND			Trace MnO ₂ sediment
MW-212M	7/29/2003	Ice only	Purple/brown	7.4	17	120	110	0.01	Very silty
MW-105	7/29/2003	Ice only	Pink	20.0	1	20.0	18.0	0.00	
MW-105M	7/29/2003	Ice only	Purple	20.2	20	404	363	0.04	Trace MnO ₂ sediment
MW-210	7/29/2003	Ice only	Purple	15.7	20	314	282	0.03	
MW-104	7/29/2003	Ice only	Trace pink	1.3	1	1.3	1.2	0.00	
MW-43S	7/29/2003	Ice only	Pink	20.2	1	20.2	18.1	0.00	Trace MnO ₂ sediment

Note:

Samples analyzed 31 July 2003

ND - None detected

NS - Denotes no sample collected from this well (no evidence of permanganate)



**Field Colorimetry
Data Form
WATER SAMPLES**

Analyst: Pac
Date: 2 September 2003
Checked by: Pac
Site Name: Raytheon Wayland
Project Number: 1922.04.02
Project Manager: Pac

Sample Name	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO ₄ (ppm)	Concentration as NaMnO ₄ (ppm)	Concentration as NaMnO ₄ (%)	Notes	
MW-106	8/25/2003	Ice only	Clear	NS						
MW-106M	8/28/2003	Ice only	Purple	45.4	20	908	815	0.08	MnO ₂ sediment	
MW-212	8/25/2003	Ice only	Pink/orange	37.0	1	37.0	33.2	0.00	MnO ₂ sediment	
MW-212M	8/25/2003	Ice only	Clear	0.1	1	0.1	< 1	-	MnO ₂ sediment	
MW-105	8/25/2003	Ice only	Pink - purple	48.2	1	48.2	43.3	0.00	MnO ₂ sediment	
MW-105M	8/25/2003	Ice only	Clear	0.4	1	0.4	< 1	-	MnO ₂ sediment	
MW-210	8/25/2003	Ice only	Dark pink	26.9	1	26.9	24.2	0.00		
MW-104	8/25/2003	Ice only	Clear	0.1	1	0.1	< 1	-		
MW-43S	8/25/2003	Ice only	Pink/orange	9.8	1	9.8	8.8	0.00	Sediment	

Note:
Samples analyzed 27 August 2003, except MW-106M analyzed 2 September 2003
Inacc - Well inaccessible
ND - None detected
NS - Denotes no sample collected from this well (no evidence of permanganate)



**Field Colorimetry
Data Form
WATER SAMPLES**

Analyst: Lawrence
 Date: 18 September 2003
 Checked by: Pac
 Site Name: Raytheon Wayland
 Project Number: 1922.09.02
 Project Manager: Pac

Sample Name	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO ₄ (ppm)	Concentration as NaMnO ₄ (ppm)	Concentration as NaMnO ₄ (%)	Notes
MW-106	9/17/2003	Ice only	Pink-purple	23.6	1	23.6	21.2	0.00	
MW-106M	9/17/2003	Ice only	Purple	45.1	20	902	810	0.08	
MW-212	9/17/2003	Ice only	Pink-purple	29.0	1	29.0	26.0	0.00	
MW-212M	9/17/2003	Ice only	Purple	34.1	10	341	306	0.03	
MW-105	9/17/2003	Ice only	Trace pink	4.9	1	4.9	4.4	0.00	
MW-105M	9/17/2003	Ice only	Purple	13.4	10	134	120	0.01	
MW-210	9/17/2003	Ice only	Purple	19.7	10	197	177	0.02	
MW-104	9/17/2003	Ice only	Trace pink	0.4	1	0.4	<1	-	
MW-43S	9/17/2003	Ice only	Trace pink	0.1	1	0.1	<1	-	

Note:
 Samples analyzed 18 September 2003
 Inacc - Well inaccessible
 ND - None detected
 NS - Denotes no sample collected from this well (no evidence of permanganate)



**Field Colorimetry
Data Form
WATER SAMPLES**

Analyst: Pac
 Date: 16 October 2003
 Checked by: Pac
 Site Name: Raytheon Wayland
 Project Number: 1922.09.02
 Project Manager: Pac

Sample Name	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO ₄ (ppm)	Concentration as NaMnO ₄ (ppm)	Concentration as NaMnO ₄ (%)	Notes
MW-106	9/30/2003	Ice only	Pink	15.1	1	15.1	13.6	0.00	
MW-106M	9/30/2003	Ice only	Dark Purple	11.5	100	1,150	1,030	0.10	
MW-212	9/30/2003	Ice only	Magenta	43.1	1	43.1	38.7	0.00	
MW-212M	9/30/2003	Ice only	Purple	14.3	20	286	257	0.03	
MW-105M	9/30/2003	Ice only	Light Purple	15.8	10	158	142	0.01	Trace sediment
MW-210	9/30/2003	Ice only	Light Purple	19.4	10	194	174	0.02	Trace sediment
MW-104	9/30/2003	Ice only	Light Pink	6.1	1	6.1	5.5	0.00	
MW-43S	9/30/2003	Ice only	Clear	0.1	1	0.1	< 1	-	

Note:
 Samples analyzed 16 September 2003
 Inacc - Well inaccessible
 ND - None detected
 NS - Denotes no sample collected from this well (no evidence of permanganate)