FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Tuesday, January 22, 2008

Sample Authorization Form (SAF) Number: F07-035 / F07/082

SDG Number (assigned by Sample Management): FP0518 Dayes 1/28/08

Attachments (check all that apply or N/A):

X	Test Results
N/A	Narrative Summary
N/A	Chain of Custody(s)
X	Logbook Pages
N/A	Anomaly Report

Total number of pages (including cover sheet): ~~17~~ 20 Dayes 3/11/08

Comments:
Electro-Coagulation Field Screening

THESE TESTS WERE CONDUCTED USING QC-

RECEIVED
APR 2 2 2010
EDMC

M.G. Bachler for Freestone
Analyst Signature

JAN 2 2 2008
Date

M.G. Bachler
Reviewer's Signature

JAN 2 2 2008
Date

Distribution: CPP Sample Management A0-21
Project (Specify)

Requires distribution to listed project personnel by Sample Management (check if applicable)

Electrocoagulation Field Measurements (SAF F07-035/F07-082)

Sample Date	Sample Time	Sample Location (valve number)	Sample Media	Sample Number	Hexavalent Chromium (mg/L) (0.005 to 0.950 mg/L)					Ferrous Iron (mg/L) (0.02 to 3.00 mg/L) (NOTE 1-REJECT DATA)					Hardness (mg/L as $CaCO_3$) (5 to 400 mg/L) (100X dilution)		Total Dissolved Solids (mg/L)	Total Settleable Solids (ml/L)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Temp. (deg.C)	Dissolved Oxygen (mg/L)
					blank	*std.*	*sample*	*std.*	*blank*	*blank*	*std.*	*sample*	*std.*	*blank*	*Mg*	*Ca*							
9/24/2007	1000	sp-100		B1N948	–	–	0.149	–	–	–	–		–	–			256	–	7.57	0.25	511	17.9	8.48
9/24/2007	1000	sp-450		B1N949	–	–	<0.005	–	–	–	–		–	–	72	113	247	<0.3	7.43	0.44	493	18.8	8.65
9/24/2007	1531	sp-100			–	–	0.144	–	–	–	–		–	–	67	127	237	–	7.63	0.18	475	20.3	6.49
9/24/2007	1540	sp-150			–	–	<0.005	–	–	–	–		–	–	71	108	244	–	7.76	8.33	489	21.3	7.88
9/27/2007	1330	sp-450		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/2/2007	0924	sp-450		–	–	–	<0.005	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1345	sp-450		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1400	sp-150		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1400	sp-180		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/3/2007	0940	n/a		–	–	–	–	–	–	<0.02	1.54		–	–	–	–	–	–	–	–	–	–	–
10/3/2007	1520	n/a		–	<0.005	0.103	–	0.103	<0.005	–	–		–	–	–	–	–	–	–	–	–	–	–
10/3/2007	1715	sp-100			–	–	<0.005	–	–	–	–		–	–	108	186	–	–	7.91	0.89	486	21.4	7.66
10/3/2007	1715	sp-150			–	–	<0.005	–	–	–	–		–	–	5	274	–	–	7.95	8.86	494	20.1	7.17
10/3/2007	1715	sp-180			–	–	<0.005	–	–	–	–		–	–	55	131	–	–	8.07	10.7	474	19.5	6.29
10/3/2007	1715	sp-200			–	–	<0.005	–	–	–	–		–	–	59	112	–	–	8.02	8.83	483	20.9	6.03
10/3/2007	1715	sand filter			–	–	<0.005	–	–	–	–		–	–	18	222	–	–	8.01	3.64	483	21.1	6.74
10/3/2007	1715	v-403			–	–	<0.005	–	–	–	–		–	–	63	117	–	–	8.02	2.91	483	20.9	7.24
10/3/2007	1715	waste tank			–	–	<0.005	–	–	–	–		–	–	74	135	–	–	8.03	9.06	484	20.0	7.02
10/3/2007	1715	sp-400			–	–	<0.005	–	–	–	–		–	–	69	107	–	–	8.01	1.88	483	20.7	7.32
10/3/2007	1715	sp-450			–	–	<0.005	–	–	–	–		–	–	62	134	–	–	8.01	0.81	483	20.8	7.10
10/3/2007	1715	well head			–	–	<0.005	–	–	–	–		–	–	73	126	–	–	8.02	1.07	480	20.9	7.46
10/5/2007	1610	sp-450	Effluent		–	–	<0.005	–	–	–	–		–	–	60	117	–	–	5.96	9.38	522	23.6	7.78
10/5/2007	1614	well head			–	–	<0.005	–	–	–	–		–	–	44	121	–	–	6.82	1.01	496	22.4	3.80
10/9/2007	1127	sp-450		B1N7N0	<0.005	0.107	<0.005	–	–	<0.02	1.55		–	–	77	151	259	–	6.44	0.17	526	20.3	7.85
10/9/2007	1213	sp-100		B1N7N2	–	–	0.140	–	–	–	–		–	–	–	–	238	–	7.37	0.51	476	19.0	6.92
10/9/2007	1221	sp-450		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/10/2007	0930	sp-450		B1N7N5	<0.005	0.109	<0.005	0.110	–	<0.02	1.50		–	–	73	135	266	–	7.96	0.21	532	17.0	8.64
10/10/2007	1325	sp-100		B1N7N6	–	–	0.142	–	–	–	–		–	<0.02	70	154	238	–	8.17	0.12	475	16.4	8.19
10/12/2007	0915	sp-450		B1N953	<0.005	0.257	<0.005	0.257	<0.005	<0.02	0.69		0.69	<0.02	66	126	265	–	6.20	0.71	530	15.8	9.41
10/12/2007	1219	sp-450		–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/12/2007	1400	sp-100		B1N7R8	–	–	0.283	–	–	–	–		–	–	61	133	256	–	7.04	0.54	512	19.9	10.41

"-" Indicate analysis not preformed

Electrocoagulation Field Measurements (SAF F07-035/F07-082)

Sample Date	Sample Time	Sample Location (valve number)	Sample Media	Sample Number	Hexavalent Chromium (mg/L) (0.005 to 0.950 mg/L)					Ferrous Iron (mg/L) (0.02 to 3.00 mg/L) (NOTE 1-REJECT DATA)					Hardness (mg/L as $CaCO_3$) (5 to 400 mg/L) (100X dilution)		Total Dissolved Solids (mg/L)	Total Settleable Solids (ml/L)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Temp. (deg.C)	Dissolved Oxygen (mg/L)
					blank	*std.*	*sample*	*std.*	*blank*	*blank*	*std.*	*sample*	*std.*	*blank*	*Mg*	*Ca*							
10/15/2007	0905	sp-100		B1N955	–	–	0.197	–	–	–	–		–	–	-	-	250	–	7.74	0.26	500	13.4	9.02
10/15/2007	0905	sp-450		B1N956	–	–	<0.005	–	–	–	–		–	–	60	121	261	<0.03	7.17	0.39	522	14.7	10.60
10/16/2007	1010	sp-450		B1N714	–	–	<0.005	–	–	–	–		–	–	46	117	270	–	6.71	0.38	540	16.9	8.71
10/16/2007	1045	sp-100		–	–	–	OOR	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1045	sp-100	1/2 dilution Cr	B1N7V4	–	–	0.761	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1140	sp-100	1/2 dilution Cr	B1N7W0	–	–	0.884	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1257	sp-100	1/10 dilution Cr	B1N7X2	–	–	0.196	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1315	sp-100	1/4 dilution Cr	B1N7X4	–	–	0.553	–	–	–	–		–	–	62	120	236	–	7.28	–	472	18.0	10.40
10/16/2007	1320	sp-150		B1N7Y4	–	–	0.009	–	–	–	–		–	–	–	–	–	–	–	–	–	19.2	6.04
10/16/2007	1402	sp-180		B1N7Y8	–	–	<0.005	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1402	sp-200		B1N800	–	–	<0.005	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1458	sp-450		B1N802	–	–	<0.005	–	–	–	–		–	–	76	179	270	–	7.23	0.38	540	16.5	12.25
10/17/2007	0845	sp-100	1/10 dilution Cr	B1N8P0	–	–	0.190	–	–	–	–		–	–	55	155	246	–	7.62	3.40	492	10.3	10.81
10/17/2007	0901	sp-100	1/10 dilution Cr	B1N950	–	–	0.318	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0911	sp-100	1/10 dilution Cr	B1N951	–	–	0.213	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0935	sp-150		B1N952	–	–	0.018	–	–	–	–		–	–	–	–	220	–	7.70	–	440	13.2	8.41
10/17/2007	0938	sp-100	1/10 dilution Cr	B1N954	–	–	0.210	–	–	–	–		–	–	–	–	239	–	7.67	2.78	478	13.2	10.92
10/17/2007	0945	sp-180		B1N957	–	–	0.011	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0949	sp-200		B1N958	–	–	0.006	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0956	sp-150		B1N959	–	–	<0.005	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1016	sp-450		B1N960	–	–	<0.005	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1110	sp-100	1/10 dilution Cr	B1N961	–	–	0.270	–	–	–	–		–	–	–	–	247	–	7.15	2.32	494	15.2	–
10/17/2007	1158	sp-100	1/10 dilution Cr	B1N962	–	–	0.265	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1200	sp-450		B1N963	–	–	<0.005	–	–	–	–		–	–	55	230	265	–	6.94	0.48	530	14.4	–
10/17/2007	1215	sp-100	1/10 dilution Cr	B1N964	–	–	0.222	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-100	1/10 dilution Cr	B1N965	–	–	0.245	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-150		B1N966	–	–	0.225	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-180		B1N967	–	–	0.030	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-200		B1N968	–	–	0.016	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1310	sp-150		B1N969	–	–	0.286	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1323	sp-150		B1N970	–	–	0.131	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1420	sp-100	1/10 dilution Cr	B1N971	–	–	0.321	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–

"-" Indicate analysis not preformed

Electrocoagulation Field Measurements (SAF F07-035/F07-082)

Sample Date	Sample Time	Sample Location (valve number)	Sample Media	Sample Number	Hexavalent Chromium (mg/L) (0.005 to 0.950 mg/L)					Ferrous Iron (mg/L) (0.02 to 3.00 mg/L) **(NOTE 1-REJECT DATA)**					Hardness (mg/L as $CaCO_3$) (5 to 400 mg/L) (100X dilution)		Total Dissolved Solids (mg/L)	Total Settleable Solids (ml/L)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Temp. (deg.C)	Dissolved Oxygen (mg/L)
					blank	*std.*	*sample*	*std.*	*blank*	*blank*	*std.*	*sample*	*std.*	*blank*	*Mg*	*Ca*							
10/17/2007	1450	sp-100	1/10 dilution Cr	B1N972	–	–	0.331	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1515	sp-450		B1N973	–	–	0.012	–	–	–	–		–	–	87	254	262	–	6.86	0.32	524	16.1	13.27
		*= visibly turbid																					
	=	Standard outside acceptable recovery limits of +/- 25% recovery. Iron: True value 2.00 mg/L. Acceptable range 1.50 to 2.50 mg/L.																					
NOTE 1	**Ferrous iron samples were filtered and should have been analyzed unfiltered. REJECT ALL FERROUS IRON DATA**																						
	=	SAF F07-082																					
	=	Sample numbers assigned by M. A. Baechler, 01/22/2008, numbers out of sequence																					

"-" Indicate analysis not preformed

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Electrocoagulation Field Measurements (SAF F07-035/F07-082)

Sample Date	Sample Time	Sample Location (valve number)	Sample Media	Sample Number	Hexavalent Chromium (mg/L) (0.005 to 0.950 mg/L)					Ferrous Iron (mg/L) (0.02 to 3.00 mg/L) (NOTE 1-REJECT DATA)					Hardness (mg/L as $CaCO_3$) (5 to 400 mg/L) (100X dilution)		Total Dissolved Solids (mg/L)	Total Settleable Solids (ml/L)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Temp. (deg.C)	Dissolved Oxygen (mg/L)
					blank	*std.*	*sample*	*std.*	*blank*	*blank*	*std.*	*sample*	*std.*	*blank*	*Mg*	*Ca*							
9/27/2007	1330	sp-450		–	–	–		–	–	–	–	**0.03**	–	–	–	–	–	–	–	–	–	–	–
10/2/2007	0924	sp-450		–	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1345	sp-450		–	–	–		–	–	–	–	**0.02**	–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1400	sp-150		–	–	–		–	–	–	–	**0.10**	–	–	–	–	–	–	–	–	–	–	–
10/2/2007	1400	sp-180		–	–	–		–	–	–	–	**0.14**	–	–	–	–	–	–	–	–	–	–	–
10/3/2007	0940	n/a		–	–	–		–	–	<0.02	1.54	–	–	–	–	–	–	–	–	–	–	–	–
10/3/2007	1520	n/a		–	<0.005	0.103		0.103	<0.005	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/3/2007	1715	sp-100		**B1PY65**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	108	186	–	–	7.91	0.89	486	21.4	7.66
10/3/2007	1715	sp-150		**B1PY66**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	5	274	–	–	7.95	8.86	494	20.1	7.17
10/3/2007	1715	sp-180		**B1PY67**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	55	131	–	–	8.07	10.7	474	19.5	6.29
10/3/2007	1715	sp-200		**B1PY68**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	59	112	–	–	8.02	8.83	483	20.9	6.03
10/3/2007	1715	sand filter		**B1PY69**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	18	222	–	–	8.01	3.64	483	21.1	6.74
10/3/2007	1715	v-403		**B1PY70**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	63	117	–	–	8.02	2.91	483	20.9	7.24
10/3/2007	1715	waste tank		**B1PY71**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	74	135	–	–	8.03	9.06	484	20.0	7.02
10/3/2007	1715	sp-400		**B1PY72**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	69	107	–	–	8.01	1.88	483	20.7	7.32
10/3/2007	1715	sp-450		**B1PY73**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	62	134	–	–	8.01	0.81	483	20.8	7.10
10/3/2007	1715	well head		**B1PY74**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	73	126	–	–	8.02	1.07	480	20.9	7.46
10/5/2007	1610	sp-450	Effluent	**B1PYD8**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	60	117	–	–	5.96	9.38	522	23.6	7.78
10/5/2007	1614	well head		**B1PYD9**	–	–	**<0.005**	–	–	–	–	**<0.02**	–	–	44	121	–	–	6.82	1.01	496	22.4	3.80
10/9/2007	1127	sp-450		B1N7N0	<0.005	0.107	**<0.005**	–	–	<0.02	1.55	**<0.02**	–	–	77	151	259	–	6.44	0.17	526	20.3	7.85
10/9/2007	1213	sp-100		B1N7N2	–	–	**0.140**	–	–	–	–	**<0.02**	–	–	–	–	238	–	7.37	0.51	476	19.0	6.92
10/9/2007	1221	sp-450		–	–	–		–	–	–	–	**<0.02**	–	–	–	–	–	–	–	–	–	–	–
10/10/2007	0930	sp-450		B1N7N5	<0.005	0.109	**<0.005**	0.110	–	<0.02	1.50	**<0.02**	–	–	73	135	266	–	7.96	0.21	532	17.0	8.64
10/10/2007	1325	sp-100		B1N7N6	–	–	**0.142**	–	–	–	–	**<0.02**	–	<0.02	70	154	238	–	8.17	0.12	475	16.4	8.19
10/12/2007	0915	sp-450		B1N953	<0.005	**0.257**	**<0.005**	**0.257**	<0.005	<0.02	**0.69**	**<0.02**	**0.69**	<0.02	66	126	265	–	6.20	0.71	530	15.8	9.41
10/12/2007	1219	sp-450		–	–	–		–	–	–	–	**<0.02**	–	–	–	–	–	–	–	–	–	–	–
10/12/2007	1400	sp-100		B1N7R8	–	–	**0.283**	–	–	–	–	**<0.02**	–	–	61	133	256	–	7.04	0.54	512	19.9	10.41
10/15/2007	0905	sp-100		B1N955	–	–	**0.197**	–	–	–	–	**<0.02**	–	–	-	-	250	–	7.74	0.26	500	13.4	9.02

"-" Indicate analysis not preformed

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10/15/2007	0905	sp-450		B1N956	–	–	<0.005	–	–	–	–	<0.02	–	–	60	121	261	<0.03	7.17	0.39	522	14.7	10.60
10/16/2007	1010	sp-450		B1N7T4	–	–	<0.005	–	–	–	–	0.03	–	–	46	117	270	–	6.71	0.38	540	16.9	8.71
10/16/2007	1045	sp-100		–	–	–	OOR	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1045	sp-100	1/2 dilution Cr	B1N7V4	–	–	0.761	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1140	sp-100	1/2 dilution Cr	B1N7W0	–	–	0.884	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1257	sp-100	1/10 dilution Cr	B1N7X2	–	–	0.196	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1315	sp-100	1/4 dilution Cr	B1N7X4	–	–	0.553	–	–	–	–	0.10	–	–	62	120	236	–	7.28	–	472	18.0	10.40
10/16/2007	1320	sp-150		B1N7Y4	–	–	0.009	–	–	–	–	0.54	–	–	–	–	–	–	–	–	–	19.2	6.04
10/16/2007	1402	sp-180		B1N7Y8	–	–	<0.005	–	–	–	–	0.06	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1402	sp-200		B1N800	–	–	<0.005	–	–	–	–	0.03	–	–	–	–	–	–	–	–	–	–	–
10/16/2007	1458	sp-450		B1N802	–	–	<0.005	–	–	–	–	0.02	–	–	76	179	270	–	7.23	0.38	540	16.5	12.25
10/17/2007	0845	sp-100	1/10 dilution Cr	B1N8P0	–	–	0.190	–	–	–	–	<0.02	–	–	55	155	246	–	7.62	3.40	492	10.3	10.81
10/17/2007	0901	sp-100	1/10 dilution Cr	B1N950	–	–	0.318	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0911	sp-100	1/10 dilution Cr	B1N951	–	–	0.213	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0935	sp-150		B1N952	–	–	0.018	–	–	–	–	0.24	–	–	–	–	220	–	7.70	–	440	13.2	8.41
10/17/2007	0938	sp-100	1/10 dilution Cr	B1N954	–	–	0.210	–	–	–	–	<0.02	–	–	–	–	239	–	7.67	2.78	478	13.2	10.92
10/17/2007	0945	sp-180		B1N957	–	–	0.011	–	–	–	–	0.11	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0949	sp-200		B1N958	–	–	0.006	–	–	–	–	0.07	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	0956	sp-150		B1N959	–	–	<0.005	–	–	–	–	0.16	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1016	sp-450		B1N960	–	–	<0.005	–	–	–	–	<0.02	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1110	sp-100	1/10 dilution Cr	B1N961	–	–	0.270	–	–	–	–	<0.02	–	–	–	–	247	–	7.15	2.32	494	15.2	–
10/17/2007	1158	sp-100	1/10 dilution Cr	B1N962	–	–	0.265	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1200	sp-450		B1N963	–	–	<0.005	–	–	–	–	0.03	–	–	55	230	265	–	6.94	0.48	530	14.4	–
10/17/2007	1215	sp-100	1/10 dilution Cr	B1N964	–	–	0.222	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-100	1/10 dilution Cr	B1N965	–	–	0.245	–	–	–	–	0.02	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-150		B1N966	–	–	0.225	–	–	–	–	0.10	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-180		B1N967	–	–	0.030	–	–	–	–	0.22	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1250	sp-200		B1N968	–	–	0.016	–	–	–	–	0.04	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1310	sp-150		B1N969	–	–	0.286	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1323	sp-150		B1N970	–	–	0.131	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1420	sp-100	1/10 dilution Cr	B1N971	–	–	0.321	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1450	sp-100	1/10 dilution Cr	B1N972	–	–	0.331	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10/17/2007	1515	sp-450		B1N973	–	–	0.012	–	–	–	–	<0.02	–	–	87	254	262	–	6.86	0.32	524	16.1	13.27
		* = visibly turbid																					

"-" Indicate analysis not preformed

00000004b

	=	Standard outside acceptable recovery limits of +/- 25% recovery. Iron: True value 2.00 mg/L. Acceptable range 1.50 to 2.50 mg/L.
NOTE 1	**Ferrous iron samples were filtered and should have been analyzed unfiltered. REJECT ALL FERROUS IRON DATA**	
	=	SAF F07-082
	=	Sample numbers assigned by M. A. Baechler, 01/22/2008, numbers out of sequence

"-" Indicate analysis not preformed

00000004C

Electrocoagulation M.A. BAECHLER/GS/M.A. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 9-24-2007

Time:	
0805	Geo on site
0930	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.6 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual Reading Range 0-10 5.11 4.89 4.85-5.37 0-100 55.8 54.9 53.0-58.6 0-1000 545 548 518-572
950	Calibration complete
1000	Collect samples B1N948 and B1N949. Samples to be analyze for required field measurements. Samples prepared to be analyzed with HACH DR 2800 (s/n 1199326) by filtering with .45 micron filter. Sample fluids pulled into ampules (Cr+6 #A7050 exp 11-09) (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times. Hardness sample prepared as per HACH method 8030 as a 100X dilution (1ml sample added to 99ml DI water). HACH Sension156 (s/n 06100C990324) used to measure pH, Temp., DO, TDS, and Conductivity. HACH 2100P (s/n 07010C02994) used to measure turbidity.
1115	Perform SDI test #1
1531	Collect samples B1PV66 and B1PV67. Samples prepared to be analyzed with HACH DR 2800 (s/n 1199326) by filtering with .45 micron filter. Sample fluids pulled into ampules (Cr+6 #A7050 exp 11-09) (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times. Hardness sample prepared as per HACH method 8030 as a 100X dilution (1ml sample added to 99ml DI water). HACH Sension156 (s/n 06100C990324) used to measure pH, Temp., DO, TDS, and Conductivity. HACH 2100P (s/n 07010C02994) used to measure turbidity.
1620	Offsite

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
B1N948	1000	Sp-100	0.149	<0.02	7.57	511	17.9	8.48	-	-	0.25	256	-
B1N949	1000	Sp-450	<0.005	<0.02	7.43	493	18.8	8.65	.72	1.13	0.44	247	<0.3
B1PV66	1531	Sp-100	0.144	<0.02	7.63	475	20.3	6.49	0.67	1.27	0.18	237	-
B1PV67	1540	Sp-150	<0.005	<0.02	7.76	489	21.3	7.88	.71	1.08	8.33	244	<0.3

MAB JAN 16 2008

M.A. BAECHLER JAN 16 2008
M.A. Baechler for Freestone

Reviewed JAN 16 2008
By: M.A. Baechler
M.A. Baechler

M.A. Baechler 1/16/08

Electrocoagulation

M.A. BAECHLER / GS / M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 9-27-2007

Time:

0830	Geo on site
~~0850~~ ①	Collect sample for ferrous iron test. Sample point 450. no std prepared.
0920	Calibration complete

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
-	1330	Sp-450	-	0.03	-	-	-	-	-	-	-	-	-

① 1330 MAB 1/16/08

M. G. Baechler 1/16/08

MAB

JAN 16 2008

M.A. BAECHLER JAN 16 2008

M.G. Baechler for Fraustone

Reviewed JAN 16 2008

By: M.A. Baechler

M.G. Baechler

Electrocoagulation

M.A. BAECHLER G.S/M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-2-2007

Time:	
900	Geo on site
945	Assist Avantech on SDI test. Analyse sp-450 sample for Chromium and Ferrous Iron. . Sample fluids pulled into ampules (Cr+6 #A7050 exp 11-09) (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times. No std. prepared.
1145	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.8 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual Reading Range 0-10 5.11 4.91 4.85-5.37 0-100 55.8 55.8 53.0-58.6 0-1000 545 548 518-572
1206	Calibration complete
1345	Collect sample from sp-450 for ferrous iron analysis. Samples prepared to be analyzed with HACH DR 2800 (s/n 1199326) by filtering with .45 micron filter. Sample fluids pulled into ampules (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times.
1400	Collect sample from Sp-150 and Sp-180 for ferrous iron analysis. Samples prepared to be analyzed with HACH DR 2800 (s/n 1199326) by filtering with .45 micron filter. Sample fluids pulled into ampules (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times.
1500	Off site

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
-	945	Sp-450	<0.005	<0.02	-	-	-	-	-	-	-	-	-
-	1345	Sp-450	-	0.02	-	-	-	-	-	-	-	-	-
-	1400	Sp-150	-	0.10	-	-	-	-	-	-	-	-	-
-	1400	Sp-180	-	0.14	-	-	-	-	-	-	-	-	-

M.A. Baechler 1/16/08

M.A. BAECHLER JAN 16 2008

M.G. Baechler for Freeston

Reviewed JAN 16 2008
By: M.A. Baechler
M.G. Baechler

Electrocoagulation M.G. Baechler 1/16/08 M.A. BAECHLER /GS/ M.G. Baechler 83

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-3-2007

Time:

0900	Geo on site
0918	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.9 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual Reading Range 0-10 5.11 4.69 4.85-5.37 0-100 55.8 55.3 53.0-58.6 0-1000 545 550 518-572
0942	Calibration complete
0930	Ferrous Iron standards prepared (Fe+2: 600 µL of 100 mg/L HACH Fe+2 std. to 29.40 mL DI water). Standard fluids pulled into ampule (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times.
1520	Hex. Chrome standards prepared (Cr+6: 240 µL of 12.5 mg/L HACH Cr+6 std. (# A7040 exp. 2-12) added to 29.76 mL DI water. Standard fluids pulled into ampule (Cr+6 #A7050 exp 11-09). Samples analyzed after required wait times.
1715	Collect samples B1PY65 through B1PY74Samples prepared to be analyzed with HACH DR 2800 (s/n 1199326) by filtering with .45 micron filter. Sample fluids pulled into ampules (Cr+6 #A7050 exp 11-09) (Fe+2 #A7031 exp1-12). Samples analyzed after required wait times. HACH Sension156 (s/n 06100C990324) used to measure pH, Temp., DO, TDS, and Conductivity. HACH 2100P (s/n 07010C02994) used to measure turbidity.
1825	Off site

① 7.17 MAB 1/16/08

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
B1PY65	1715	Sp-100	<0.005	<0.02	7.91	486	21.4	7.66	1.08	1.86	0.89	-	-
B1PY66	1715	Sp-150	<0.005	<0.02	7.95	494	20.1	① ~~2.47~~	0.05	2.74	8.86	-	-
B1PY67	1715	Sp-180	<0.005	<0.02	8.07	474	19.5	6.29	0.55	1.31	10.7	-	-
B1PY68	1715	Sp-200	<0.005	<0.02	8.02	483	20.9	6.03	.59	1.12	8.83	-	-
B1PY69	1715	Sand filter	<0.005	<0.02	8.01	483	21.1	6.74	.18	2.22	3.64	-	-
B1PY70	1715	v-403	<0.005	<0.02	8.02	483	20.9	7.24	.63	1.17	2.91	-	-
B1PY71	1715	Waste tank	<0.005	<0.02	8.03	484	20.0	7.02	.74	1.35	9.06	-	-
B1PY72	1715	Sp-400	<0.005	<0.02	8.01	483	20.7	7.32	.69	1.07	1.88	-	-
B1PY73	1715	Sp-450	<0.005	<0.02	8.01	483	20.8	7.10	.62	1.34	0.81	-	-
B1PY74	1715	Well head	<0.005	<0.02	8.02	480	20.9	7.46	.73	1.26	1.07	-	-
Standards													
Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (12.5 mg/L)	Fe^{+2} (100 mg/L)									
-	940	-	-	1.54	-	-	-	-	-	-	-	-	-
-	1520	-	.103	-	-	-	-	-	-	-	-	-	-

M.A. BAECHLER for Freestone JAN 16 2008

Reviewed
By: M.A. Baechler M.G. Baechler JAN 16 2008

Electrocoagulation

M.A. BAECHLER (651)
M. G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-4-2007

Time:

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915	Geo on site
1005	Finish hardness tests on samples B1PY65 through B1PY74. Hardness prepared as a 100x dilution as per HACH method 8030. This hardness data can be found on the FAR for 10-3-07.
1500	Off site

M. G. Baechler 1/16/08

JAN 16 2008

M.A. BAECHLER JAN 16 2008
M. G. Baechler for Freestone

Reviewed
By: M.A. Baechler JAN 16 2008
M. G. Baechler

Electrocoagulation

M.A. BAECHLER/GS/M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-5-2007

Time:

0900	Geo on site
0930	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -58 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual / Reading / Range 0-10: 5.11 / 4.73 / 4.85-5.37 0-100: 55.8 / 55.4 / 53.0-58.6 0-1000: 545 / 550 / 518-573
0955	Calibration complete
1016	Collect samples B1PYD8 & B1PYD9

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
B1PYD8	1610	Sp-450	<0.005	<0.02	5.96	522	23.6	7.78	0.60	1.17	9.38	-	-
B1PYD9	1614	Well head	<0.005	<0.02	6.82	496	22.4	3.80	0.44	1.21	1.01	-	-

M.A. Baechler 1/16/08

MAB

JAN 16 2008

M.A. BAECHLER JAN 16 2008

M.G. Baechler for Freestone

Reviewed
By: M.A. Baechler JAN 16 2008

M.G. Baechler

00000010

Electrocoagulation

M.A. BAECHLER /GS/
M. G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-9-2007

Time:

1107	Cal pH slope = -57.5 mV
1115	DO refilled & calibrated
1125	Collect sp-450 sample
1145	5.11 NTU sample reads 5.25
1213	Sp-100 sample collected
1221	Sample for Fe+2 labled 450 pH 6.5-6.6 SDI
1530	Compleat 2nd of 2 SDI tests (before and after pH adjustment)

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
BIN7NO	1127	Sp-450	-.002	.010	6.44	526	20.3	7.85	0.77	1.51	0.17	259	-
BIN7N1	1213	Sp-150	0.140	0.00	7.37	476	19.0	6.92			0.51	238	-
-	1221	Sp-180		0.00									
Standards													
Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (12.5 mg/L)	Fe^{+2} (100 mg/L)									
-	1127	-	.107	1.55	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

M. G. Baechler 1/16/08

MAB

JAN 16 2008

JAN 16 2008

M.A. BAECHLER

M. G. Baechler for Firestone

Reviewed JAN 16 2008

By: M.A. Baechler

M. G. Baechler

Electrocoagulation

M.A. BAECHLER 1631
M. G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-10-2007

Time:

Page1of 1

1115	pH cal / DO cal Turb 5.11NTU std. reads 5.06. DI blank = 0.21 NTU

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
BIN7N5	0930	Sp-450	-.002	.001	7.96	532	17.0	8.64	.073	1.35	0.21	266	-
BIN7N6	1325	Sp-100	0.142	0.01	8.17	475	16.4	8.19	0.70	1.54	~~0.51~~ ①	238	-

Standards

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (12.5 mg/L)	Fe^{+2} (100 mg/L)									
-	1127	-	.109	1.50	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

① 0.12 MAB 1/16/08

M. G. Baechler 1/16/08

MAB

JAN 16 2008

M.A. BAECHLER JAN 16 2008
M. G. Baechler for Freestone

Reviewed JAN 16 2008
By: M.A. Baechler
M. G. Baechler

Electrocoagulation

M.A. BAECHLER 1/15/M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-12-2007

Time:	
0800	Geo on site
0855	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.5 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual / Reading / Range 0-10: 5.11 / 4.80 / 4.85-5.37 0-100: 55.8 / 53.9 / 53.0-58.6 0-1000: 545 / 549 / 518-572
0913	Calibration complete
0915	Collect sample B1N953

M.G. Baechler 1/16/08

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (12.5 mg/L)	Fe^{+2} (100 mg/L)									
Standards													
B1N953	0915	Sp-450	0.257	.69	-	-	-	-	-	-	-	-	-
Blanks													
B1N953	0915	450	<0.005	<0.02	-	-	-	-	-	-	-	-	-

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH ①	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
B1N953	0915	Sp-450	<0.005	<0.02	~~7.86~~	530	15.8	9.41	0.66	1.26	.71	265	-
—	1100	Sp-150										-	-
—	1219	Sp-450		<0.02								-	-
B1N7R8	1400	Sp-100	.283	<0.02	7.04	512	19.9	10.41	0.61	1.33	0.54	256	-

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (12.5 mg/L)	Fe^{+2} (100 mg/L)									
Standards													
B1N953	0915	Sp-100	0.257	.69	-	-	-	-	-	-	-	-	-
Blanks													
B1N953	0915	Sp-100	<0.005	<0.02	-	-	-	-	-	-	-	-	-

① 6.20 MAB 1/16/08

MAB

JAN 16 2008

M.A. BAECHLER

M.G. Baechler for Freestone JAN 16 2008

Reviewed JAN 16 2008
By: M.A. Baechler

M.G. Baechler

Electrocoagulation M.A. BAECHLER/GS/M.G. Baechler 89

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-15-2007

Time:

0840	Geo on site
0900	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.6 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual Reading Range 0-10 5.11 4.57 4.85-5.37 0-100 55.8 55.4 53.0-58.6 0-1000 545 550 518-572
0905	Collect samples B1N955 & B1N956

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
B1N955	0905	Sp-100	.197	<0.02	7.74	500	13.4	9.02			.26	250	0
B1N956	0905	Sp-450	<0.005	<0.02	7.17	522	14.7	10.60	.60	1.21	.39	261	<.3

M.G. Baechler 1/16/08

MAB JAN 16 2008

M.A. BAECHLER JAN 16 2008
M.G. Baechler for Freestone

Reviewed by M.A. Baechler JAN 16 2008
M.G. Baechler

Electrocoagulation

M.A. BAECHLER/GS/M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-16-2007

Time:

0905	Geo on site
0920	Begin calibration of HACH Sension 156 (s/n 06100C990324) pH: New buffer used; 7.00 #6325 exp. 11/30/08, 4.00 #6350 exp.12/31/08, 10.00 #6325 exp.12/31/07 Slope = -57.9 Range = -58+-3Mv Conductivity: Traceable one-shot calibration solution used for calibration (Analysis #3728 exp. 11/16/07) DO: Probe prepared with HACH DO electrode filling solution (#7040 exp.2/09). Probe was allowed to stabilize before calibration began. Turbidity: HACH 2100P Turbidity Meter (s/n 07010C020994) checked with gelex standards (#A7070) Actual Reading Range 0-10 5.11 4.67 4.85-5.37 0-100 55.8 55.1 53.0-58.6 0-1000 545 549 518-572
0940	Calibration compleat
1010	Collect samples

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
BIN774	1010	Sp-450	<0.005	.03	6.71	540	16.9	8.71	.46	1.17	0.38	270	
—	1045	Sp-100											
BIN7V4	1045	Sp-100	.761										
BIN7W0	1140	Sp-100	.884										
—	1215	Sp-100											
BIN7X2	1257	Sp-100	.196										
BIN7X4	1315	Sp-100	.553	0.10	7.28	472	18.0	10.40	.62	1.20		236	
BIN7Y4	1320	Sp-150	.009	.54			19.2	6.04					
BIN7Y8	1402	Sp-180	<0.005	.06									
BINY08	1402	Sp-200	<0.005	.03									
BINY02	1458	Sp-450	<0.005	.02	7.23	540	16.5	12.25	.76	1.79	.38	270	

M.G. Baechler 1/16/08

NAB

JAN 16 2008

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M.A. BAECHLER

M.G. Baechler for Freestone

Reviewed
By: M.A. Baechler JAN 16 2008

M.G. Baechler

Electrocoagulation

M.A. BAECHLER GS/M.G. Baechler

Electrocoagulation Daily Activity Log
Logbook HNF-N-500 1
Date: 10-17-2007

② See Pg. 92 for Sample Numbers MAB 1/22/08 ① 8.41 MAB 1/16/08

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
1/10 dilution	0845	Sp-100	.190	<0.02	7.62	492	10.3	10.81	.55	1.55	3.40	246	
1/10 dilution	0901	Sp-100	.318										
1/10 dilution	0911	Sp-100	.213										
	0935	Sp-150	.018	.24	7.70	440	13.2	~~8.91~~ ①				220	
1/10 dilution	0938	Sp-100	.210	<0.02	7.76	478	13.2	10.92				239	
	0949	Sp-180	.011	.11							2.78		
	0945	Sp-200	.006	.07									
	0956	Sp-150	<0.005	.16									
	1016	Sp-450	<0.005	<0.02									
1/10 dilution	1110	Sp-100	.270	<0.02	7.15	494	15.2				2.32	247	

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
1/10 dilution	1158	Sp-100	.265					②					
	1200	Sp-450	<0.005	.03	6.94	530	14.4	~~6.47~~	0.55	2.30	.48	265	
	1215	Sp-100	.222										
	1250	Sp-100	.245	.02									
	1250	Sp-150	.225	.10									
	1250	Sp-180	.030	.22									
	1250	Sp-200	.016	.04									
	1310	Sp-150	.286										
	1323	Sp-100	.131										
1/10 dilution	1420	Sp-100	.321										

Sample #	Time Sampled	Sample Location / Valve #	Cr^{+6} (mg/L)	Fe^{+2} (mg/L)	pH	Conduc. (µs/cm)	Temp. (deg. C)	DO (mg/L)	Hardness (mg/L as CaCo3) 100x dilution		Turb. (NTU)	TDS (mg/L)	TSS (ml/L)
									Mg	Ca			
1/10 dilution	1450	Sp-100	.331										
	1515	Sp-450	.012	<.02	6.86	524	16.1	13.27	.87	2.54	.32	262	

② No value recorded on field sheet MAB 1/16/08

M.G. Baechler 1/16/08

M.A. BAECHLER JAN 16 2008
M.G. Baechler for Fuston

Reviewed JAN 16 2008
By: M.A. Baechler
M.G. Baechler

Electrocoagulation M.A. BAECHLER/GS/M.A. Baechler

JAN 22 2008

Sample numbers for analyses performed on 10/17/07.
See pg. 91

Sample Number	Sample Time
BIN890	0845
~~BIN8~~ MAB 1/22/08	—
BIN950	0901
BIN951	0911
BIN952	0935
BIN953	0938
BIN957	0943
BIN958	0944
BIN959	0956
BIN960	1016
BIN961	1110
BIN962	1158
BIN963	1200
BIN964	1215
BIN965	1250
BIN966	1250
BIN967	1250
BIN968	1250
BIN969	1310
BIN970	1323
BIN971	1420
BIN972	1450
BIN973	1515

Reviewed
By: P.M. Gent
1/22/08

MAB 1/22/08

M.A. BAECHLER
JAN 22 2008
M.A. Baechler