

METHOD 350.2
AMMONIA (NH3-N)

Client : AECOM
Project : HALACO
Batch No. : 06D171

Matrix : SOLID
Instrument ID : I70

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	NHD005SB	ND	1	NA	1	.5	04/27/0617:40	04/26/0616:10	NHD005S-14	NHD005S-10	NHD005S	NA	04/26/06
LCS1S	NHD005SL	9.32	1	NA	1	.5	04/27/0617:40	04/26/0616:10	NHD005S-15	NHD005S-10	NHD005S	NA	04/26/06
LCD1S	NHD005SC	9.87	1	NA	1	.5	04/27/0617:41	04/26/0616:10	NHD005S-16	NHD005S-10	NHD005S	NA	04/26/06
Y.1S.1	D171-02	26.1	2	NA	2	1	04/27/0617:57	04/26/0616:10	NHD005S-18	NHD005S-10	NHD005S	04/21/06	04/21/06
Y.1S.2	D171-03	40.0	2	NA	2	1	04/27/0617:57	04/26/0616:10	NHD005S-20	NHD005S-10	NHD005S	04/21/06	04/21/06
Y.2S.1	D171-04	87.2	5	NA	5	2.5	04/27/0617:58	04/26/0616:10	NHD005S-24	NHD005S-22	NHD005S	04/21/06	04/21/06
Y.3S.1A	D171-05	131	10	NA	10	5	04/27/0617:58	04/26/0616:10	NHD005S-26	NHD005S-22	NHD005S	04/21/06	04/21/06
Y.3S.2	D171-06	363	20	NA	20	10	04/27/0617:59	04/26/0616:10	NHD005S-28	NHD005S-22	NHD005S	04/21/06	04/21/06
B.2S.1	D171-07	367	20	NA	20	10	04/27/0618:00	04/26/0616:10	NHD005S-30	NHD005S-22	NHD005S	04/21/06	04/21/06
B.2S.2	D171-08	373	20	NA	20	10	04/27/0618:00	04/26/0616:10	NHD005S-32	NHD005S-22	NHD005S	04/21/06	04/21/06
B.2S.3	D171-09	69.3	5	NA	5	2.5	04/27/0618:00	04/26/0616:10	NHD005S-36	NHD005S-34	NHD005S	04/21/06	04/21/06
B.2S.4	D171-10	272	20	NA	20	10	04/27/0618:01	04/26/0616:10	NHD005S-38	NHD005S-34	NHD005S	04/21/06	04/21/06
C.24S.1	D171-12	162	10	NA	10	5	04/27/0618:02	04/26/0616:10	NHD005S-40	NHD005S-34	NHD005S	04/21/06	04/21/06
C.29S.1	D171-13	20.0	1	NA	1	.5	04/27/0618:02	04/26/0616:10	NHD005S-41	NHD005S-34	NHD005S	04/21/06	04/21/06
Y.3S.1B	D171-14	99.2	10	NA	10	5	04/27/0618:03	04/26/0616:10	NHD005S-43	NHD005S-34	NHD005S	04/21/06	04/21/06
Y.3S.1BDUP	D171-14D	99.2	10	NA	10	5	04/27/0618:03	04/26/0616:10	NHD005S-44	NHD005S-34	NHD005S	04/21/06	04/21/06
Y.3S.1BMD	D171-14M	200	10	NA	10	5	04/27/0618:04	04/26/0616:10	NHD005S-45	NHD005S-34	NHD005S	04/21/06	04/21/06

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.1S.1 Date Analyzed: 04/28/06 15:13
Lab Samp ID: D171-02 Dilution Factor: 1
Lab File ID: I07D037016 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	747	1	.2
Beryllium	88.3	1	.2
Cadmium	ND	1	.5
Chromium	24.1	2	1
Cobalt	1.01U	2	1
Copper	99.3	2	.5
Molybdenum	11.4	5	.5
Nickel	23.2	2	1
Silver	4.01	2	.5
Vanadium	8.33	2	.5
Zinc	483	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.1S.2 Date Analyzed: 04/28/06 15:21
Lab Samp ID: D171-03 Dilution Factor: 1
Lab File ID: I07D037018 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	ND	10	2
Barium	995	1	.2
Beryllium	100	1	.2
Cadmium	ND	1	.5
Chromium	24.3	2	1
Cobalt	1.46T	2	1
Copper	87.7	2	.5
Molybdenum	8.32	5	.5
Nickel	15.8	2	1
Silver	3.55	2	.5
Vanadium	8.28	2	.5
Zinc	466	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.2S.1 Date Analyzed: 04/28/06 15:25
Lab Samp ID: D171-04 Dilution Factor: 1
Lab File ID: I07D037019 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	ND	10	2
Barium	175	1	.2
Beryllium	47.3	1	.2
Cadmium	ND	1	.5
Chromium	15	2	1
Cobalt	1.32J	2	1
Copper	1.77	2	.5
Molybdenum	7.5	5	.5
Nickel	8.03	2	1
Silver	1.65J	2	.5
Vanadium	5.77	2	.5
Zinc	380	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.3S.1A
Lab Samp ID: DL71-05
Lab File ID: I07D037022
Ext Btch ID: IPD033S
Calib. Ref.: I07D037020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 15:39
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	356	1	.2
Beryllium	55.1	1	.2
Cadmium	ND	1	.5
Chromium	31.1	2	1
Cobalt	1.02U	2	1
Copper	71.5	2	.5
Molybdenum	12	5	.5
Nickel	7.46	2	1
Silver	11	2	.5
Vanadium	4.45	2	.5
Zinc	516	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.3S.2 Date Analyzed: 04/28/06 15:43
Lab Samp ID: D171-06 Dilution Factor: 1
Lab File ID: I07D037023 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	3.9U	10	2
Barium	217	1	.2
Beryllium	51.4	1	.2
Cadmium	ND	1	.5
Chromium	14.8	2	1
Cobalt	1.68U	2	1
Copper	73	2	.5
Molybdenum	7.7	5	.5
Nickel	11.3	2	1
Silver	2.26	2	.5
Vanadium	3.33	2	.5
Zinc	451	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.1
Lab Samp ID: DL71-07
Lab File ID: 107D037024
Ext Btch ID: IPD033S
Calib. Ref.: 107D037020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 15:47
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	220	1	.2
Beryllium	50.4	1	.2
Cadmium	ND	1	.5
Chromium	38.9	2	1
Cobalt	1.44T	2	1
Copper	162	2	.5
Molybdenum	7.9	5	.5
Nickel	14.4	2	1
Silver	2.48	2	.5
Vanadium	4.21	2	.5
Zinc	567	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: B.2S.2 Date Analyzed: 04/28/06 15:51
Lab Samp ID: DL71-08 Dilution Factor: 1
Lab File ID: I07D037025 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	3.41U	10	2
Barium	30.9	1	.2
Beryllium	29.2	1	.2
Cadmium	ND	1	.5
Chromium	5.21	2	1
Cobalt	ND	2	1
Copper	14.6	2	.5
Molybdenum	11.4	5	.5
Nickel	2.56	2	1
Silver	ND	2	.5
Vanadium	2.03	2	.5
Zinc	293	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.3
Lab Samp ID: DL71-09
Lab File ID: I07D037026
Ext Btch ID: IPD033S
Calib. Ref.: I07D037020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 15:55
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	492	1	.2
Beryllium	117	1	.2
Cadmium	ND	1	.5
Chromium	35.9	2	1
Cobalt	1.24u	2	1
Copper	52.1	2	.5
Molybdenum	6.5	5	.5
Nickel	16.7	2	1
Silver	3.28	2	.5
Vanadium	5.91	2	.5
Zinc	305	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: B.2S.4 Date Analyzed: 04/28/06 16:01
Lab Samp ID: DL71-10 Dilution Factor: 1
Lab File ID: I07D037027 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	ND	10	2
Barium	253	1	.2
Beryllium	45.7	1	.2
Cadmium	ND	1	.5
Chromium	13.5	2	1
Cobalt	ND	2	1
Copper	66.7	2	.5
Molybdenum	5.89	5	.5
Nickel	7.03	2	1
Silver	9.34	2	.5
Vanadium	2.71	2	.5
Zinc	483	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: C.24S.1 Date Analyzed: 04/28/06 16:05
Lab Samp ID: D171-12 Dilution Factor: 1
Lab File ID: I07D037028 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	ND	10	2
Barium	247	1	.2
Beryllium	59.9	1	.2
Cadmium	ND	1	.5
Chromium	15.8	2	1
Cobalt	1.01U	2	1
Copper	83.4	2	.5
Molybdenum	11.8	5	.5
Nickel	9.22	2	1
Silver	1.98U	2	.5
Vanadium	4.37	2	.5
Zinc	493	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: C.29S.1 Date Analyzed: 04/28/06 16:09
Lab Samp ID: D171-13 Dilution Factor: 1
Lab File ID: I07D037029 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/Kg)	RL (mg/Kg)	MDL (mg/Kg)
Antimony	ND	10	2
Barium	878	1	.2
Beryllium	148	1	.2
Cadmium	ND	1	.5
Chromium	21.1	2	1
Cobalt	2.01	2	1
Copper	59.1	2	.5
Molybdenum	4.457	5	.5
Nickel	11.3	2	1
Silver	3.25	2	.5
Vanadium	6.53	2	.5
Zinc	352	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.3S.1B Date Analyzed: 04/28/06 16:13
Lab Samp ID: D171-14 Dilution Factor: 1
Lab File ID: I07D037030 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	273	1	.2
Beryllium	33.6	1	.2
Cadmium	.714U	1	.5
Chromium	28.1	2	1
Cobalt	2.54	2	1
Copper	193	2	.5
Molybdenum	3.59U	5	.5
Nickel	22.9	2	1
Silver	2.74	2	.5
Vanadium	6.28	2	.5
Zinc	938	1	.5

METHOD 3050B/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.1S.1DL Date Analyzed: 04/28/06 15:17
Lab Samp ID: DL71-02J Dilution Factor: 5
Lab File ID: I07D037017 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I07D037008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Antimony	ND	50		10
Barium	792	5		1
Beryllium	95.7	5		1
Cadmium	ND	5		2.5
Chromium	27.1	10		5
Cobalt	ND	10		5
Copper	104	10		2.5
Molybdenum	8.11J	25		2.5
Nickel	20.1	10		5
Silver	7.06J	10		2.5
Vanadium	9.1J	10		2.5
Zinc	542	5		2.5

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MBLK1S
Lab Samp ID: IPD033SB
Lab File ID: 107D037010
Ext Btch ID: IPD033S
Calib. Ref.: 107D037008
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 14:45
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10	2
Barium	ND	1	.2
Beryllium	ND	1	.2
Cadmium	ND	1	.5
Chromium	ND	2	1
Cobalt	ND	2	1
Copper	ND	2	.5
Molybdenum	ND	5	.5
Nickel	ND	2	1
Silver	ND	2	.5
Vanadium	ND	2	.5
Zinc	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILT N FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IPD033SB IPD033SL IPD033SC
LAB FILE ID: I07D037010 I07D037011 I07D037012
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 04/26/0610:00 DATE COLLECTED: NA
DATE TIME ANALYZD: 04/28/0614:45 04/28/0614:49 04/28/0614:53 DATE RECEIVED: 04/26/06
PREP. BATCH: IPD033S IPD033S IPD033S
CALIB. REF: I07D037008 I07D037008 I07D037008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	420	84	500	424	85	1	80-120	20
Barium	ND	100	89.6	90	100	89.7	90	0	80-120	20
Beryllium	ND	100	94.8	95	100	94.9	95	0	80-120	20
Cadmium	ND	100	87.1	87	100	87.3	87	0	80-120	20
Chromium	ND	100	89.3	89	100	89.5	89	0	80-120	20
Cobalt	ND	100	88.3	88	100	87.4	87	1	80-120	20
Copper	ND	100	91.5	92	100	92.2	92	1	80-120	20
Molybdenum	ND	100	88.6	89	100	87.6	88	1	80-120	20
Nickel	ND	100	87.1	87	100	86	86	1	80-120	20
Silver	ND	100	87.1	87	100	87.7	88	1	80-120	20
Vanadium	ND	100	89.1	89	100	89.3	89	0	80-120	20
Zinc	ND	100	88.9	89	100	89	89	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILT N FACTR: 1 1 1
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02M D171-02S
LAB FILE ID: I07D037016 I07D037013 I07D037014
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0615:13 04/28/0614:59 04/28/0615:03 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S IPD033S
CALIB. REF: I07D037008 I07D037008 I07D037008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	4.81J	500	358	71*	500	364	72*	2	75-125	20
Barium	747	100	869	123	100	848	102	2	75-125	20
Beryllium	88.3	100	172	83	100	170	82	1	75-125	20
Cadmium	ND	100	78.7	79	100	80.7	81	2	75-125	20
Chromium	24.1	100	114	90	100	122	98	7	75-125	20
Cobalt	1.01J	100	75.3	74*	100	78	77	4	75-125	20
Copper	99.3	100	193	94	100	187	88	3	75-125	20
Molybdenum	11.4	100	81.8	70*	100	88.8	77	8	75-125	20
Nickel	23.2	100	87.1	64*	100	97.7	74*	11	75-125	20
Silver	4.01	100	64	60*	100	65.9	62*	3	75-125	20
Vanadium	8.33	100	86.9	79	100	91.1	83	5	75-125	20
Zinc	483	100	546	63*	100	528	46*	3	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILT N FACTR: 1 1
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02A
LAB FILE ID: I07D037016 I07D037015
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0615:13 04/28/0615:07 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S
CALIB. REF: I07D037008 I07D037008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	500	346	69*	75-125
Barium	747	100	820	73*	75-125
Beryllium	88.3	100	172	84	75-125
Cadmium	ND	100	83.4	83	75-125
Chromium	24.1	100	107	82	75-125
Cobalt	1.01J	100	81.3	80	75-125
Copper	99.3	100	187	88	75-125
Molybdenum	11.4	100	88.4	77	75-125
Nickel	23.2	100	97.6	74*	75-125
Silver	4.01	100	88.4	84	75-125
Vanadium	8.33	100	91.8	84	75-125
Zinc	483	100	555	73*	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD 3050B/6010B
=====

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 5
SAMPLE ID: Y.1S.1 Y.1S.1DL
EMAX SAMP ID: D171-02 D171-02J
LAB FILE ID: I07D037016 I07D037017
DATE EXTRACTED: 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE ANALYZED: 04/28/0615:13 04/28/0615:17 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S
CALIB. REF: I07D037008 I07D037008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
-----	-----	-----	-----	-----
Antimony	ND	ND	0	10
Barium	747	792	6	10
Beryllium	88.3	95.7	8	10
Cadmium	ND	ND	0	10
Chromium	24.1	27.1	12*	10
Cobalt	1.01J	ND	NA	10
Copper	99.3	104	5	10
Molybdenum	11.4	8.11J	NA	10
Nickel	23.2	20.1	13*	10
Silver	4.01	7.06J	NA	10
Vanadium	8.33	9.1J	NA	10
Zinc	483	542	12*	10

METHOD 3010A/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/19/06
Project : HALACO Date Received: 04/20/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: 24-ASB-3@14' Date Analyzed: 04/27/06 16:43
Lab Samp ID: DL57-06 Dilution Factor: 1
Lab File ID: I73D028039 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028034 Instrument ID : EMAXT173
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.1	.014
Arsenic	ND	.01	.005
Barium	.0363	.01	.002
Beryllium	ND	.01	.001
Cadmium	ND	.01	.001
Chromium	.264	.01	.0025
Cobalt	ND	.01	.0025
Copper	.0241	.01	.002
Lead	.003367	.01	.003
Molybdenum	.007037	.05	.005
Nickel	.0293	.01	.0025
Selenium	.0097	.01	.005
Silver	ND	.01	.003
Thallium	ND	.01	.005
Vanadium	.0183	.01	.005
Zinc	.192	.01	.005

METHOD 3010A/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG No. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.3.21 Date Analyzed: 04/27/06 16:56
Lab Samp ID: D171-01 Dilution Factor: 1
Lab File ID: I73D028041 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028034 Instrument ID : EMAXT173
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.1	.014
Arsenic	.0593	.01	.005
Barium	.0128	.01	.002
Beryllium	.0521	.01	.001
Cadmium	.00977	.01	.001
Chromium	.853	.01	.0025
Cobalt	.119	.01	.0025
Copper	2.33	.01	.002
Lead	.0105	.01	.003
Molybdenum	.03777	.05	.005
Nickel	.893	.01	.0025
Selenium	ND	.01	.005
Silver	.0131	.01	.003
Thallium	ND	.01	.005
Vanadium	.11	.01	.005
Zinc	3.36	.01	.005

METHOD 3010A/6010B
METALS BY ICP

=====
Client : AECOM Date Collected: 04/19/06
Project : HALACO Date Received: 04/20/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: 24-ASB-3@14.DL Date Analyzed: 04/27/06 16:50
Lab Samp ID: DL57-06J Dilution Factor: 5
Lab File ID: I73D028040 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028034 Instrument ID : EMAXT173
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	.03717	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	.268	.05	.0125
Cobalt	ND	.05	.0125
Copper	.01467	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	.02747	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	.192	.05	.025

METHOD 3010A/6010B
METALS BY ICP

=====
Client : AECOM
Project : HALACO
SDG No. : 06D171
Sample ID: MELK1W
Lab Samp ID: IPD034WB
Lab File ID: I73D028013
Ext Btch ID: IPD034W
Calib. Ref.: I73D028011
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 11:00
Date Analyzed: 04/27/06 12:57
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT173
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.1	.014
Arsenic	ND	.01	.005
Barium	ND	.01	.002
Beryllium	ND	.01	.001
Cadmium	ND	.01	.001
Chromium	ND	.01	.0025
Cobalt	ND	.01	.0025
Copper	ND	.01	.002
Lead	ND	.01	.003
Molybdenum	ND	.05	.005
Nickel	ND	.01	.0025
Selenium	ND	.01	.005
Silver	ND	.01	.003
Thallium	ND	.01	.005
Vanadium	ND	.01	.005
Zinc	ND	.01	.005

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1W			
CONTROL NO.:	IPD034WB	IPD034WL		
LAB FILE ID:	I73D028013	I73D028014		
DATIME EXTRCTD:	04/26/0611:00	04/26/0611:00	DATE COLLECTED:	NA
DATIME ANALYZD:	04/27/0612:57	04/27/0613:03	DATE RECEIVED:	04/26/06
PREP. BATCH:	IPD034W	IPD034W		
CALIB. REF:	I73D028011	I73D028011		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----
Antimony	ND	5	5.59	112	80-120
Arsenic	ND	1	1.14	114	80-120
Barium	ND	1	1.03	103	80-120
Beryllium	ND	1	1.12	112	80-120
Cadmium	ND	1	1.05	105	80-120
Chromium	ND	1	1.08	108	80-120
Cobalt	ND	1	1.06	106	80-120
Copper	ND	1	1.07	107	80-120
Lead	ND	1	1.08	108	80-120
Molybdenum	ND	1	1.05	105	80-120
Nickel	ND	1	1.05	105	80-120
Selenium	ND	1	1.1	110	80-120
Silver	ND	1	1.06	106	80-120
Thallium	ND	1	1.1	110	80-120
Vanadium	ND	1	1.08	108	80-120
Zinc	ND	1	1.1	110	80-120

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3010A/6010B

MATRIX: WATER % MOISTURE: NA
DILT N FACTR: 1 1
SAMPLE ID: 24-ASB-3@14'
CONTROL NO.: D157-06 D157-06A
LAB FILE ID: I73D028039 I73D028038
DATE TIME EXTRCTD: 04/26/0611:00 04/26/0611:00 DATE COLLECTED: 04/19/06
DATE TIME ANALYZD: 04/27/0616:43 04/27/0616:36 DATE RECEIVED: 04/20/06
PREP. BATCH: IPD034W IPD034W
CALIB. REF: I73D028034 I73D028034

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.14	103	75-125
Arsenic	ND	1	1.05	105	75-125
Barium	.0363	1	.996	96	75-125
Beryllium	ND	1	1.06	106	75-125
Cadmium	ND	1	.973	97	75-125
Chromium	.264	1	1.26	100	75-125
Cobalt	ND	1	.994	99	75-125
Copper	.0241	1	1.04	102	75-125
Lead	.00336J	1	1.01	101	75-125
Molybdenum	.00703J	1	.993	99	75-125
Nickel	.0293	1	.996	97	75-125
Selenium	.009J	1	1	99	75-125
Silver	ND	1	.983	98	75-125
Thallium	ND	1	.999	100	75-125
Vanadium	.0183	1	1.02	101	75-125
Zinc	.192	1	1.19	100	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD 3010A/6010B
=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 5
SAMPLE ID: 24-ASB-3@14' 24-ASB-3@14'DL
EMAX SAMP ID: D157-06 D157-06J
LAB FILE ID: I73D028039 I73D028040
DATE EXTRACTED: 04/26/0611:00 04/26/0611:00 DATE COLLECTED: 04/19/06
DATE ANALYZED: 04/27/0616:43 04/27/0616:50 DATE RECEIVED: 04/20/06
PREP. BATCH: IPD034W IPD034W
CALIB. REF: I73D028034 I73D028034

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	.0363	.0371J	NA	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	.264	.268	1	10
Cobalt	ND	ND	0	10
Copper	.0241	.0146J	NA	10
Lead	.00336J	ND	NA	10
Molybdenum	.00703J	ND	NA	10
Nickel	.0293	.0274J	NA	10
Selenium	.009J	ND	NA	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	.0183	ND	NA	10
Zinc	.192	.192	0	10

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.1S.1 Date Analyzed: 04/28/06 12:27
Lab Samp ID: D171-02 Dilution Factor: 5
Lab File ID: I07D036014 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	.241U	.5	.2
Barium	4.38	.05	.01
Beryllium	2.39	.05	.005
Cadmium	ND	.05	.01
Chromium	.166	.05	.025
Cobalt	ND	.05	.025
Copper	1.48	.05	.025
Molybdenum	.053U	.25	.05
Nickel	.163	.1	.05
Silver	ND	.05	.025
Vanadium	.0754	.05	.025
Zinc	8.42	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.1S.2 Date Analyzed: 04/28/06 12:31
Lab Samp ID: D171-03 Dilution Factor: 5
Lab File ID: I07D036015 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	7.18	.05	.01
Beryllium	3.54	.05	.005
Cadmium	ND	.05	.01
Chromium	.149	.05	.025
Cobalt	ND	.05	.025
Copper	1.51	.05	.025
Molybdenum	.177	.25	.05
Nickel	.08427	.1	.05
Silver	ND	.05	.025
Vanadium	.0935	.05	.025
Zinc	6.84	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.2S.1 Date Analyzed: 04/28/06 12:35
Lab Samp ID: D171-04 Dilution Factor: 5
Lab File ID: I07D036016 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	5.32	.05	.01
Beryllium	2.01	.05	.005
Cadmium	ND	.05	.01
Chromium	.113	.05	.025
Cobalt	ND	.05	.025
Copper	2.01	.05	.025
Molybdenum	.187	.25	.05
Nickel	.132	.1	.05
Silver	ND	.05	.025
Vanadium	.0604	.05	.025
Zinc	7.75	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.3S.1A
Lab Samp ID: D171-05
Lab File ID: I07D036017
Ext Btch ID: IPD035W
Calib. Ref.: I07D036008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 12:39
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	6.86	.05	.01
Beryllium	1.91	.05	.005
Cadmium	ND	.05	.01
Chromium	.0794	.05	.025
Cobalt	ND	.05	.025
Copper	1.5	.05	.025
Molybdenum	.1917	.25	.05
Nickel	.06877	.1	.05
Silver	ND	.05	.025
Vanadium	.03347	.05	.025
Zinc	8.16	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.2 Date Analyzed: 04/28/06 12:43
Lab Samp ID: D171-06 Dilution Factor: 5
Lab File ID: I07D036018 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	6.69	.05	.01
Beryllium	1.21	.05	.005
Cadmium	ND	.05	.01
Chromium	.0895	.05	.025
Cobalt	ND	.05	.025
Copper	ND	.05	.025
Molybdenum	.223J	.25	.05
Nickel	.0576J	.1	.05
Silver	ND	.05	.025
Vanadium	.042J	.05	.025
Zinc	6.49	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: B.2S.1 Date Analyzed: 04/28/06 12:47
Lab Samp ID: D171-07 Dilution Factor: 5
Lab File ID: I07D036019 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	4.6	.05	.01
Beryllium	1.77	.05	.005
Cadmium	ND	.05	.01
Chromium	.0975	.05	.025
Cobalt	ND	.05	.025
Copper	3.48	.05	.025
Molybdenum	.318	.25	.05
Nickel	.106	.1	.05
Silver	ND	.05	.025
Vanadium	.0493u	.05	.025
Zinc	8.8	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: B.2S.2 Date Analyzed: 04/28/06 13:02
Lab Samp ID: D171-08 Dilution Factor: 5
Lab File ID: I07D036022 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	1.25	.05	.01
Beryllium	.431	.05	.005
Cadmium	ND	.05	.01
Chromium	.0329U	.05	.025
Cobalt	ND	.05	.025
Copper	.497	.05	.025
Molybdenum	ND	.25	.05
Nickel	.164	.1	.05
Silver	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	8.39	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: B.2S.3 Date Analyzed: 04/28/06 13:06
Lab Samp ID: DL71-09 Dilution Factor: 5
Lab File ID: I07D036023 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	4.09	.05	.01
Beryllium	4.52	.05	.005
Cadmium	ND	.05	.01
Chromium	.161	.05	.025
Cobalt	ND	.05	.025
Copper	1.19	.05	.025
Molybdenum	.159U	.25	.05
Nickel	ND	.1	.05
Silver	ND	.05	.025
Vanadium	.062	.05	.025
Zinc	5.43	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: B.2S.4 Date Analyzed: 04/28/06 13:10
Lab Samp ID: D171-10 Dilution Factor: 5
Lab File ID: I07D036024 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	10.2	.05	.01
Beryllium	1.71	.05	.005
Cadmium	ND	.05	.01
Chromium	.0854	.05	.025
Cobalt	ND	.05	.025
Copper	1.4	.05	.025
Molybdenum	.276	.25	.05
Nickel	.0787 ^U	.1	.05
Silver	ND	.05	.025
Vanadium	.0491 ^U	.05	.025
Zinc	7.23	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: C.24S.1 Date Analyzed: 04/28/06 13:14
Lab Samp ID: D171-12 Dilution Factor: 5
Lab File ID: I07D036025 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	6.01	.05	.01
Beryllium	1.99	.05	.005
Cadmium	ND	.05	.01
Chromium	.0808	.05	.025
Cobalt	ND	.05	.025
Copper	2.54	.05	.025
Molybdenum	.149 _U	.25	.05
Nickel	.092 _U	.1	.05
Silver	ND	.05	.025
Vanadium	.0332 _U	.05	.025
Zinc	7.01	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: C.29S.1 Date Analyzed: 04/28/06 13:18
Lab Samp ID: DL71-13 Dilution Factor: 5
Lab File ID: I07D036026 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	.349J	.5	.2
Barium	3.69	.05	.01
Beryllium	6.15	.05	.005
Cadmium	ND	.05	.01
Chromium	.16	.05	.025
Cobalt	ND	.05	.025
Copper	1.2	.05	.025
Molybdenum	.244J	.25	.05
Nickel	.0609J	.1	.05
Silver	ND	.05	.025
Vanadium	.09	.05	.025
Zinc	6.26	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.1B Date Analyzed: 04/28/06 13:22
Lab Samp ID: D171-14 Dilution Factor: 5
Lab File ID: I07D036027 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	3.12	.05	.01
Beryllium	1.26	.05	.005
Cadmium	ND	.05	.01
Chromium	.166	.05	.025
Cobalt	ND	.05	.025
Copper	.0289J	.05	.025
Molybdenum	.212J	.25	.05
Nickel	.145	.1	.05
Silver	ND	.05	.025
Vanadium	.0968	.05	.025
Zinc	28.7	.05	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.1BDL Date Analyzed: 04/28/06 13:26
Lab Samp ID: D171-14J Dilution Factor: 25
Lab File ID: I07D036028 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I07D036020 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	2.5	1
Barium	3.19	.25	.05
Beryllium	1.35	.25	.025
Cadmium	ND	.25	.05
Chromium	.312	.25	.125
Cobalt	ND	.25	.125
Copper	ND	.25	.125
Molybdenum	.318J	1.25	.25
Nickel	ND	.5	.25
Silver	ND	.25	.125
Vanadium	ND	.25	.125
Zinc	30.2	.25	.125

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: NA
Project : HALACO Date Received: 04/27/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: MBK1W Date Analyzed: 04/28/06 12:13
Lab Samp ID: IPD035WB Dilution Factor: 1
Lab File ID: 107D036011 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: 107D036008 Instrument ID : EMAXT107
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.1	.04
Barium	ND	.01	.002
Beryllium	ND	.01	.001
Cadmium	ND	.01	.002
Chromium	ND	.01	.005
Cobalt	ND	.01	.005
Copper	ND	.01	.005
Molybdenum	ND	.05	.01
Nickel	ND	.02	.01
Silver	ND	.01	.005
Vanadium	ND	.01	.005
Zinc	ND	.01	.005

=====

Client	: AECOM	Date	Collected: NA
Project	: HALACO	Date	Received: 04/27/06
SDG NO.	: 06D171	Date	Extracted: 04/27/06 11:00
Sample ID:	MBLKIS	Date	Analyzed: 04/28/06 12:09
Lab Samp ID:	WTD004SB	Dilution Factor:	5
Lab File ID:	107D036010	Matrix	: WATER
Ext Btch ID:	IPD035W	% Moisture	: NA
Calib. Ref.:	107D036008	Instrument ID	: EMAXT107

=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.2
Barium	ND	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.01
Chromium	ND	.05	.025
Cobalt	ND	.05	.025
Copper	ND	.05	.025
Molybdenum	ND	.25	.05
Nickel	ND	.1	.05
Silver	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

STLC Extraction Date: 04/24/06 19:30

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

MATRIX: WATER % MOISTURE: NA
DILT N FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IPD035WB IPD035WL IPD035WC
LAB FILE ID: I07D036011 I07D036012 I07D036013
DATE TIME EXTRCTD: 04/27/0611:00 04/27/0611:00 04/27/0611:00 DATE COLLECTED: NA
DATE TIME ANALYZD: 04/28/0612:13 04/28/0612:17 04/28/0612:21 DATE RECEIVED: 04/27/06
PREP. BATCH: IPD035W IPD035W IPD035W
CALIB. REF: I07D036008 I07D036008 I07D036008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	4.9	98	5	5.02	100	2	80-120	20
Barium	ND	1	1.0	100	1	.987	99	1	80-120	20
Beryllium	ND	1	1.08	108	1	1.05	105	3	80-120	20
Cadmium	ND	1	1.06	106	1	1.03	103	2	80-120	20
Chromium	ND	1	1.06	106	1	1.04	104	2	80-120	20
Cobalt	ND	1	1.05	105	1	1.03	103	2	80-120	20
Copper	ND	1	1.03	103	1	1.01	101	2	80-120	20
Molybdenum	ND	1	1.03	103	1	1.03	103	0	80-120	20
Nickel	ND	1	1.05	105	1	1	100	4	80-120	20
Silver	ND	1	1.02	102	1	.993	99	2	80-120	20
Vanadium	ND	1	1.05	105	1	1.03	103	2	80-120	20
Zinc	ND	1	1.07	107	1	1.05	105	2	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

MATRIX: WATER % MOISTURE: NA
DILT N FACTR: 5 5 5
SAMPLE ID: Y.3S.1B
CONTROL NO.: D171-14 D171-14M D171-14S
LAB FILE ID: I07D036027 I07D036030 I07D036031
DATE TIME EXTRCTD: 04/27/0611:00 04/27/0611:00 04/27/0611:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0613:22 04/28/0613:34 04/28/0613:39 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD035W IPD035W IPD035W
CALIB. REF: I07D036020 I07D036020 I07D036020

ACCESSION:

PARAMETER	SMPL RSLT mg/L	SPIKE AMT mg/L	MS RSLT mg/L	MS % REC	SPIKE AMT mg/L	MSD RSLT mg/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	25	23.5	94	25	23.6	94	0	75-125	20
Barium	3.12	5	8	97	5	8.03	98	0	75-125	20
Beryllium	1.26	5	6.06	96	5	6.06	96	0	75-125	20
Cadmium	ND	5	4.75	95	5	4.77	95	1	75-125	20
Chromium	.166	5	5.06	98	5	5.09	98	1	75-125	20
Cobalt	ND	5	4.71	94	5	4.7	94	0	75-125	20
Copper	.0289J	5	4.9	97	5	4.94	98	1	75-125	20
Molybdenum	.212J	5	4.96	95	5	5	96	1	75-125	20
Nickel	.145	5	4.82	94	5	4.68	91	3	75-125	20
Silver	ND	5	4.64	93	5	4.69	94	1	75-125	20
Vanadium	.0968	5	4.9	96	5	4.92	96	1	75-125	20
Zinc	28.7	5	35.2	129*	5	35.3	132*	0	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILT N FACTR:	5	5		
SAMPLE ID:	Y.3S.1B			
CONTROL NO.:	D171-14	D171-14A		
LAB FILE ID:	I07D036027	I07D036029		
DATE TIME EXTRCTD:	04/27/0611:00	04/27/0611:00	DATE COLLECTED:	04/21/06
DATE TIME ANALYZD:	04/28/0613:22	04/28/0613:30	DATE RECEIVED:	04/21/06
PREP. BATCH:	IPD035W	IPD035W		
CALIB. REF:	I07D036020	I07D036020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----
Antimony	ND	25	22.9	92	75-125
Barium	3.12	5	7.62	90	75-125
Beryllium	1.26	5	5.85	92	75-125
Cadmium	ND	5	4.61	92	75-125
Chromium	.166	5	4.93	95	75-125
Cobalt	ND	5	4.61	92	75-125
Copper	.0289J	5	4.77	95	75-125
Molybdenum	.212J	5	5	96	75-125
Nickel	.145	5	4.56	88	75-125
Silver	ND	5	4.54	91	75-125
Vanadium	.0968	5	4.81	94	75-125
Zinc	28.7	5	32.6	79	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD WET/3010A/6010B
=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 5 25
SAMPLE ID: Y.3S.1B Y.3S.1BDL
EMAX SAMP ID: D171-14 D171-14J
LAB FILE ID: I07D036027 I07D036028
DATE EXTRACTED: 04/27/0611:00 04/27/0611:00 DATE COLLECTED: 04/21/06
DATE ANALYZED: 04/28/0613:22 04/28/0613:26 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD035W IPD035W
CALIB. REF: I07D036020 I07D036020

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT (%)	QC LIMIT (%)
-----	-----	-----	-----	-----
Antimony	ND	ND	0	10
Barium	3.12	3.19	2	10
Beryllium	1.26	1.35	7	10
Cadmium	ND	ND	0	10
Chromium	.166	.312	88*	10
Cobalt	ND	ND	0	10
Copper	.0289J	ND	NA	10
Molybdenum	.212J	.318J	NA	10
Nickel	.145	ND	NA	10
Silver	ND	ND	0	10
Vanadium	.0968	ND	NA	10
Zinc	28.7	30.2	5	10

METHOD MET/3010A/6010B
STLC METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.1S.1
Lab Samp ID: D171-02
Lab File ID: I31D006014
Ext Btch ID: IPD035W
Calib. Ref.: I31D006008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 12:35
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)

Arsenic	.0655U	.1	.025
Lead	.0833U	.1	.015
Selenium	.0663U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

METHOD MET/3010A/6010B
STLC METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.1S.2 Date Analyzed: 04/28/06 12:40
Lab Samp ID: D171-03 Dilution Factor: 5
Lab File ID: I31D006015 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)

Arsenic	.0647J	.1	.025
Lead	.0531J	.1	.015
Selenium	.0559J	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.2S.1 Date Analyzed: 04/28/06 12:45
Lab Samp ID: D171-04 Dilution Factor: 5
Lab File ID: I31D006016 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)

Arsenic	.0681J	.1	.025
Lead	.0897J	.1	.015
Selenium	.07J	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.1A Date Analyzed: 04/28/06 12:50
Lab Samp ID: D171-05 Dilution Factor: 5
Lab File ID: I31D006017 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)

Arsenic	.071J	.1	.025
Lead	.0658J	.1	.015
Selenium	.0596J	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

METHOD MET/3010A/6010B
STLC METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.3S.2
Lab Samp ID: D171-06
Lab File ID: I31D006018
Ext Btch ID: IPD035W
Calib. Ref.: I31D006008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 12:56
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Arsenic	.0454U	.1	.025
Lead	.0351U	.1	.015
Selenium	.0571U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.1
Lab Samp ID: D171-07
Lab File ID: I31D006019
Ext Btch ID: IPD035W
Calib. Ref.: I31D006008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 13:01
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
-----	-----	-----	-----
Arsenic	.0619U	.1	.025
Lead	.0818U	.1	.015
Selenium	.0715U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.2
Lab Samp ID: D171-08
Lab File ID: I31D006022
Ext Btch ID: IPD035W
Calib. Ref.: I31D006020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 13:16
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Arsenic	.0629U	.1	.025
Lead	.0229U	.1	.015
Selenium	.0894U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.3
Lab Samp ID: D171-09
Lab File ID: I31D006023
Ext Btch ID: IPD035W
Calib. Ref.: I31D006020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 13:26
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
-----	-----	-----	-----
Arsenic	.0629U	.1	.025
Lead	.0378U	.1	.015
Selenium	.0427U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: B.2S.4 Date Analyzed: 04/28/06 13:31
Lab Samp ID: D171-10 Dilution Factor: 5
Lab File ID: I31D006024 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
-----	-----	-----	-----
Arsenic	.0724J	.1	.025
Lead	.0795J	.1	.015
Selenium	.0455J	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: C.24S.1 Date Analyzed: 04/28/06 13:36
Lab Samp ID: D171-12 Dilution Factor: 5
Lab File ID: I31D006025 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
-----	-----	-----	-----
Arsenic	.0591U	.1	.025
Lead	.0797U	.1	.015
Selenium	.062U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: C.29S.1
Lab Samp ID: D171-13
Lab File ID: I31D006026
Ext Btch ID: IPD035W
Calib. Ref.: I31D006020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 13:41
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Arsenic	.0599U	.1	.025
Lead	.0438U	.1	.015
Selenium	.0611U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.1B Date Analyzed: 04/28/06 13:46
Lab Samp ID: D171-14 Dilution Factor: 5
Lab File ID: I31D006027 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)

Arsenic	.0782J	.1	.025
Lead	.096J	.1	.015
Selenium	.0707J	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/27/06 11:00
Sample ID: Y.3S.1BDL Date Analyzed: 04/28/06 13:52
Lab Samp ID: D171-14J Dilution Factor: 25
Lab File ID: I31D006028 Matrix : WATER
Ext Btch ID: IPD035W % Moisture : NA
Calib. Ref.: I31D006020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Arsenic	ND	.5	.125
Lead	.11U	.5	.075
Selenium	ND	.5	.125
Thallium	ND	.5	.125

STLC Extraction Date: 04/24/06 19:30

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MBK1W
Lab Samp ID: IPD035WB
Lab File ID: I31D006011
Ext Btch ID: IPD035W
Calib. Ref.: I31D006008
Date Collected: NA
Date Received: 04/27/06
Date Extracted: 04/27/06 11:00
Date Analyzed: 04/28/06 12:18
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Arsenic	ND	.02	.005
Lead	ND	.02	.003
Selenium	ND	.02	.005
Thallium	.0107J	.02	.005

STLC Extraction Date: 04/24/06 19:30

METHOD MET/3010A/6010B
STLC METALS BY TRACE ICP

=====

Client	: AECOM	Date	Collected: NA
Project	: HALACO	Date	Received: 04/27/06
SDG NO.	: 06D171	Date	Extracted: 04/27/06 11:00
Sample ID:	MBLKS	Date	Analyzed: 04/28/06 12:13
Lab Samp ID:	WTD004SB	Dilution Factor:	5
Lab File ID:	I31D006010	Matrix	: WATER
Ext Btch ID:	IPD035W	% Moisture	: NA
Calib. Ref.:	I31D006008	Instrument ID	: EMAXT131

=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
-----	-----	-----	-----
Arsenic	.0684U	.1	.025
Lead	ND	.1	.015
Selenium	.0423U	.1	.025
Thallium	ND	.1	.025

STLC Extraction Date: 04/24/06 19:30

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

=====

MATRIX: WATER
DILTN FACTR: 1 1 1 % MOISTURE: NA
SAMPLE ID: MBLK1W
CONTROL NO.: IPD035WB IPD035WL IPD035WC
LAB FILE ID: I31D006011 I31D006012 I31D006013
DATIME EXTRCTD: 04/27/0611:00 04/27/0611:00 04/27/0611:00 DATE COLLECTED: NA
DATIME ANALYZD: 04/28/0612:18 04/28/0612:24 04/28/0612:29 DATE RECEIVED: 04/27/06
PREP. BATCH: IPD035W IPD035W IPD035W
CALIB. REF: I31D006008 I31D006008 I31D006008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	1	1.13	113	1	1.07	107	5	80-120	20
Lead	ND	1	1.1	110	1	1.06	106	4	80-120	20
Selenium	ND	1	1.14	114	1	1.07	107	7	80-120	20
Thallium	.0107J	1	1.11	110	1	1.07	106	4	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

=====

MATRIX: WATER
DILTN FACTR: 5 5 5 % MOISTURE: NA
SAMPLE ID: Y.3S.1B
CONTROL NO.: D171-14 D171-14M D171-14S
LAB FILE ID: I31D006027 I31D006030 I31D006031
DATE TIME EXTRCTD: 04/27/0611:00 04/27/0611:00 04/27/0611:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0613:46 04/28/0614:02 04/28/0614:07 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD035W IPD035W IPD035W
CALIB. REF: I31D006020 I31D006020 I31D006020

ACCESSION:

PARAMETER	SMPL RSLT mg/L	SPIKE AMT mg/L	MS RSLT mg/L	MS % REC	SPIKE AMT mg/L	MSD RSLT mg/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	.0782J	5	5.2	102	5	5.2	102	0	75-125	20
Lead	.096J	5	4.72	93	5	4.76	93	1	75-125	20
Selenium	.0707J	5	5.68	112	5	5.71	113	0	75-125	20
Thallium	ND	5	4.72	94	5	4.75	95	1	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD WET/3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	5	5		
SAMPLE ID:	Y.3S.1B			
CONTROL NO.:	D171-14	D171-14A		
LAB FILE ID:	I31D006027	I31D006029		
DATIME EXTRCTD:	04/27/0611:00	04/27/0611:00	DATE COLLECTED:	04/21/06
DATIME ANALYZD:	04/28/0613:46	04/28/0613:57	DATE RECEIVED:	04/21/06
PREP. BATCH:	IPD035W	IPD035W		
CALIB. REF:	I31D006020	I31D006020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----
Arsenic	.0782J	5	5.01	99	75-125
Lead	.096J	5	4.63	91	75-125
Selenium	.0707J	5	5.43	107	75-125
Thallium	ND	5	4.58	92	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD WET/3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	5	25		
SAMPLE ID:	Y.3S.1B	Y.3S.1BDL		
EMAX SAMP ID:	D171-14	D171-14J		
LAB FILE ID:	I31D006027	I31D006028		
DATE EXTRACTED:	04/27/0611:00	04/27/0611:00	DATE COLLECTED:	04/21/06
DATE ANALYZED:	04/28/0613:46	04/28/0613:52	DATE RECEIVED:	04/21/06
PREP. BATCH:	IPD035W	IPD035W		
CALIB. REF:	I31D006020	I31D006020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
-----	-----	-----	-----	-----
Arsenic	.0782J	ND	NA	10
Lead	.096J	.111J	NA	10
Selenium	.0707J	ND	NA	10
Thallium	ND	ND	0	10

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.1S.1 Date Analyzed: 04/27/06 13:36
Lab Samp ID: D171-02 Dilution Factor: 5
Lab File ID: I73D028019 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028011 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/L)	(mg/L)		
Antimony	ND	.5	.07	
Arsenic	ND	.05	.025	
Barium	.894	.05	.01	
Beryllium	ND	.05	.005	
Cadmium	ND	.05	.005	
Chromium	ND	.05	.0125	
Cobalt	ND	.05	.0125	
Copper	ND	.05	.01	
Lead	ND	.05	.015	
Molybdenum	.03617	.25	.025	
Nickel	ND	.05	.0125	
Selenium	ND	.05	.025	
Silver	ND	.05	.015	
Thallium	ND	.05	.025	
Vanadium	ND	.05	.025	
Zinc	ND	.05	.025	

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.1S.2 Date Analyzed: 04/27/06 17:13
Lab Samp ID: D171-03 Dilution Factor: 5
Lab File ID: I73D028043 Matrix : WATER
Ext Btch ID: TXD0055 % Moisture : NA
Calib. Ref.: I73D028034 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	.942	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.2S.1 Date Analyzed: 04/27/06 17:19
Lab Samp ID: D171-04 Dilution Factor: 5
Lab File ID: I73D028044 Matrix : WATER
Ext Btch ID: TXD005S % Moisture : NA
Calib. Ref.: I73D028034 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	.885	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	.02667	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCMP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.3S.1A Date Analyzed: 04/27/06 15:12
Lab Samp ID: D171-05 Dilution Factor: 5
Lab File ID: I73D028025 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	1.58	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	.0409U	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	.0197U	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.3S.2 Date Analyzed: 04/27/06 15:18
Lab Samp ID: D171-06 Dilution Factor: 5
Lab File ID: I73D028026 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	1.76	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	.0922	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	.0455J	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: B.2S.1 Date Analyzed: 04/27/06 15:24
Lab Samp ID: D171-07 Dilution Factor: 5
Lab File ID: I73D028027 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	1.67	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	.0562	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	.0284U	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: B.2S.2 Date Analyzed: 04/27/06 15:31
Lab Samp ID: D171-08 Dilution Factor: 5
Lab File ID: I73D028028 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	.261	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	.034 ^u	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: B.2S.3 Date Analyzed: 04/27/06 15:37
Lab Samp ID: D171-09 Dilution Factor: 5
Lab File ID: I73D028029 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/L)	(mg/L)		
Antimony	ND	.5	.07	
Arsenic	ND	.05	.025	
Barium	.532	.05	.01	
Beryllium	ND	.05	.005	
Cadmium	ND	.05	.005	
Chromium	ND	.05	.0125	
Cobalt	ND	.05	.0125	
Copper	ND	.05	.01	
Lead	ND	.05	.015	
Molybdenum	.025LT	.25	.025	
Nickel	ND	.05	.0125	
Selenium	.0444T	.05	.025	
Silver	ND	.05	.015	
Thallium	ND	.05	.025	
Vanadium	ND	.05	.025	
Zinc	ND	.05	.025	

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: B.2S.4 Date Analyzed: 04/27/06 15:43
Lab Samp ID: DL71-10 Dilution Factor: 5
Lab File ID: I73D028030 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/L)	(mg/L)		
Antimony	ND	.5	.07	
Arsenic	ND	.05	.025	
Barium	3.82	.05	.01	
Beryllium	ND	.05	.005	
Cadmium	ND	.05	.005	
Chromium	ND	.05	.0125	
Cobalt	ND	.05	.0125	
Copper	ND	.05	.01	
Lead	ND	.05	.015	
Molybdenum	ND	.25	.025	
Nickel	ND	.05	.0125	
Selenium	ND	.05	.025	
Silver	ND	.05	.015	
Thallium	ND	.05	.025	
Vanadium	ND	.05	.025	
Zinc	ND	.05	.025	

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: C.24S.1 Date Analyzed: 04/27/06 15:49
Lab Samp ID: DL71-12 Dilution Factor: 5
Lab File ID: I73D028031 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	1.89	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: C.29S.1 Date Analyzed: 04/27/06 15:55
Lab Samp ID: DL71-13 Dilution Factor: 5
Lab File ID: I73D028032 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028023 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/L)	(mg/L)		
Antimony	ND	.5	.07	
Arsenic	ND	.05	.025	
Barium	.464	.05	.01	
Beryllium	ND	.05	.005	
Cadmium	ND	.05	.005	
Chromium	ND	.05	.0125	
Cobalt	ND	.05	.0125	
Copper	ND	.05	.01	
Lead	ND	.05	.015	
Molybdenum	ND	.25	.025	
Nickel	ND	.05	.0125	
Selenium	ND	.05	.025	
Silver	ND	.05	.015	
Thallium	ND	.05	.025	
Vanadium	ND	.05	.025	
Zinc	ND	.05	.025	

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.3S.1B
Lab Samp ID: D171-14
Lab File ID: I73D028033
Ext Btch ID: IPD034W
Calib. Ref.: I73D028023
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 11:00
Date Analyzed: 04/27/06 16:01
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	.441	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	.0862	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	.02520	.25	.025
Nickel	.04670	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 11:00
Sample ID: Y.1S.1DL Date Analyzed: 04/27/06 13:42
Lab Samp ID: D171-02J Dilution Factor: 25
Lab File ID: I73D028020 Matrix : WATER
Ext Btch ID: IPD034W % Moisture : NA
Calib. Ref.: I73D028011 Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	2.5	.35
Arsenic	ND	.25	.125
Barium	.91	.25	.05
Beryllium	ND	.25	.025
Cadmium	ND	.25	.025
Chromium	ND	.25	.0625
Cobalt	ND	.25	.0625
Copper	ND	.25	.05
Lead	ND	.25	.075
Molybdenum	ND	1.25	.125
Nickel	ND	.25	.0625
Selenium	ND	.25	.125
Silver	ND	.25	.075
Thallium	ND	.25	.125
Vanadium	ND	.25	.125
Zinc	ND	.25	.125

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MELK1W
Lab Samp ID: IPD034WB
Lab File ID: I73D028013
Ext Btch ID: IPD034W
Calib. Ref.: I73D028011
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 11:00
Date Analyzed: 04/27/06 12:57
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT173
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.1	.014
Arsenic	ND	.01	.005
Barium	ND	.01	.002
Beryllium	ND	.01	.001
Cadmium	ND	.01	.001
Chromium	ND	.01	.0025
Cobalt	ND	.01	.0025
Copper	ND	.01	.002
Lead	ND	.01	.003
Molybdenum	ND	.05	.005
Nickel	ND	.01	.0025
Selenium	ND	.01	.005
Silver	ND	.01	.003
Thallium	ND	.01	.005
Vanadium	ND	.01	.005
Zinc	ND	.01	.005

RL: Reporting Limit

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MEIKIS
Lab Samp ID: TXD004SB
Lab File ID: I73D028036
Ext Btch ID: IPD034W
Calib. Ref.: I73D028034
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 11:00
Date Analyzed: 04/27/06 16:22
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	ND	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MELK2S
Lab Samp ID: TXD005SB
Lab File ID: I73D028037
Ext Btch ID: IPD034W
Calib. Ref.: I73D028034
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 11:00
Date Analyzed: 04/27/06 16:28
Dilution Factor: 5
Matrix : WATER
% Moisture : NA
Instrument ID : EMAXT73
=====

PARAMETERS	RESULTS		
	(mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	.5	.07
Arsenic	ND	.05	.025
Barium	ND	.05	.01
Beryllium	ND	.05	.005
Cadmium	ND	.05	.005
Chromium	ND	.05	.0125
Cobalt	ND	.05	.0125
Copper	ND	.05	.01
Lead	ND	.05	.015
Molybdenum	ND	.25	.025
Nickel	ND	.05	.0125
Selenium	ND	.05	.025
Silver	ND	.05	.015
Thallium	ND	.05	.025
Vanadium	ND	.05	.025
Zinc	ND	.05	.025

RL: Reporting Limit
TCLP Extraction Date: 04/24/06 19:00

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 1311/3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1W			
CONTROL NO.:	IPD034WB	IPD034WL		
LAB FILE ID:	I73D028013	I73D028014		
DATIME EXTRCTD:	04/26/0611:00	04/26/0611:00	DATE COLLECTED:	NA
DATIME ANALYZD:	04/27/0612:57	04/27/0613:03	DATE RECEIVED:	04/26/06
PREP. BATCH:	IPD034W	IPD034W		
CALIB. REF:	I73D028011	I73D028011		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----
Antimony	ND	5	5.59	112	80-120
Arsenic	ND	1	1.14	114	80-120
Barium	ND	1	1.03	103	80-120
Beryllium	ND	1	1.12	112	80-120
Cadmium	ND	1	1.05	105	80-120
Chromium	ND	1	1.08	108	80-120
Cobalt	ND	1	1.06	106	80-120
Copper	ND	1	1.07	107	80-120
Lead	ND	1	1.08	108	80-120
Molybdenum	ND	1	1.05	105	80-120
Nickel	ND	1	1.05	105	80-120
Selenium	ND	1	1.1	110	80-120
Silver	ND	1	1.06	106	80-120
Thallium	ND	1	1.1	110	80-120
Vanadium	ND	1	1.08	108	80-120
Zinc	ND	1	1.1	110	80-120

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 1311/3010A/6010B

MATRIX: WATER % MOISTURE: NA
DILT N FACTR: 5 5 5
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02M D171-02S
LAB FILE ID: I73D028019 I73D028016 I73D028017
DATE TIME EXTRACTD: 04/26/0611:00 04/26/0611:00 04/26/0611:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/27/0613:36 04/27/0613:15 04/27/0613:22 DATE RECEIVED: 04/21/06
PREP. BATCH: TXD005S TXD005S TXD005S
CALIB. REF: I73D028011 I73D028011 I73D028011

ACCESSION:

PARAMETER	SMPL RSLT mg/L	SPIKE AMT mg/L	MS RSLT mg/L	MS % REC	SPIKE AMT mg/L	MSD RSLT mg/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	25	28.3	113	25	28.3	113	0	75-125	20
Arsenic	ND	5	5.72	114	5	5.68	114	1	75-125	20
Barium	.894	5	5.88	100	5	5.83	99	1	75-125	20
Beryllium	ND	5	5.54	111	5	5.45	109	2	75-125	20
Cadmium	ND	5	5.16	103	5	5.12	102	1	75-125	20
Chromium	ND	5	5.3	106	5	5.24	105	1	75-125	20
Cobalt	ND	5	5.22	104	5	5.17	103	1	75-125	20
Copper	ND	5	5.36	107	5	5.32	106	1	75-125	20
Lead	ND	5	5.29	106	5	5.27	105	0	75-125	20
Molybdenum	.0361J	5	5.38	107	5	5.34	106	1	75-125	20
Nickel	ND	5	5.15	103	5	5.09	102	1	75-125	20
Selenium	ND	5	5.58	112	5	5.55	111	0	75-125	20
Silver	ND	5	5.3	106	5	5.26	105	1	75-125	20
Thallium	ND	5	5.48	110	5	5.46	109	0	75-125	20
Vanadium	ND	5	5.35	107	5	5.28	106	1	75-125	20
Zinc	ND	5	5.47	109	5	5.4	108	1	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 1311/3010A/6010B

MATRIX: WATER % MOISTURE: NA
DILT N FACTR: 5 5
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02A
LAB FILE ID: I73D028019 I73D028018
DATE TIME EXTRCTD: 04/26/0611:00 04/26/0611:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/27/0613:36 04/27/0613:28 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD034W IPD034W
CALIB. REF: I73D028011 I73D028011

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	25	26.5	106	75-125
Arsenic	ND	5	5.46	109	75-125
Barium	.894	5	5.69	96	75-125
Beryllium	ND	5	5.3	106	75-125
Cadmium	ND	5	4.95	99	75-125
Chromium	ND	5	5.11	102	75-125
Cobalt	ND	5	5.03	101	75-125
Copper	ND	5	5.21	104	75-125
Lead	ND	5	5.1	102	75-125
Molybdenum	.0361J	5	5.1	101	75-125
Nickel	ND	5	4.94	99	75-125
Selenium	ND	5	5.4	108	75-125
Silver	ND	5	5.14	103	75-125
Thallium	ND	5	5.34	107	75-125
Vanadium	ND	5	5.16	103	75-125
Zinc	ND	5	5.25	105	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD 1311/3010A/6010B

=====

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	5	25		
SAMPLE ID:	Y.1S.1	Y.1S.1DL		
EMAX SAMP ID:	D171-02	D171-02J		
LAB FILE ID:	I73D028019	I73D028020		
DATE EXTRACTED:	04/26/0611:00	04/26/0611:00	DATE COLLECTED:	04/21/06
DATE ANALYZED:	04/27/0613:36	04/27/0613:42	DATE RECEIVED:	04/21/06
PREP. BATCH:	IPD034W	IPD034W		
CALIB. REF:	I73D028011	I73D028011		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	.894	.91	2	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	.0361J	ND	NA	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	ND	ND	0	10

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.1S.1
Lab Samp ID: D171-02
Lab File ID: I31D007013
Ext Btch ID: IPD033S
Calib. Ref.: I31D007008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 16:15
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.76J	1		.4
Lead	13.2	1		.2
Selenium	.715J	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.1S.2 Date Analyzed: 04/28/06 16:20
Lab Samp ID: D171-03 Dilution Factor: 1
Lab File ID: I31D007014 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.853J	1		.4
Lead	9.27	1		.2
Selenium	.922J	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: Y.2S.1
Lab Samp ID: D171-04
Lab File ID: I31D007015
Ext Btch ID: IPD033S
Calib. Ref.: I31D007008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 16:25
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	1.14	1		.4
Lead	8.76	1		.2
Selenium	.881U	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.3S.1A Date Analyzed: 04/28/06 16:30
Lab Samp ID: D171-05 Dilution Factor: 1
Lab File ID: I31D007016 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	1.33	1	.4
Lead	7.69	1	.2
Selenium	1.1	1	.5
Thallium	ND	1	.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.3S.2 Date Analyzed: 04/28/06 16:35
Lab Samp ID: D171-06 Dilution Factor: 1
Lab File ID: I31D007017 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007008 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.48J	1		.4
Lead	9.2	1		.2
Selenium	.742J	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.1
Lab Samp ID: D171-07
Lab File ID: I31D007018
Ext Btch ID: IPD033S
Calib. Ref.: I31D007008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 16:40
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/Kg)	(mg/Kg)		(mg/Kg)
Arsenic	.869J	1		.4
Lead	12	1		.2
Selenium	.832J	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.2
Lab Samp ID: D171-08
Lab File ID: I31D007019
Ext Btch ID: IPD033S
Calib. Ref.: I31D007008
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 16:45
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	ND	1		.4
Lead	3.42	1		.2
Selenium	1.27	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: B.2S.3
Lab Samp ID: D171-09
Lab File ID: I31D007022
Ext Btch ID: IPD033S
Calib. Ref.: I31D007020
Date Collected: 04/21/06
Date Received: 04/21/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 17:06
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.556U	1		.4
Lead	5.52	1		.2
Selenium	.766U	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: B.2S.4 Date Analyzed: 04/28/06 17:11
Lab Samp ID: D171-10 Dilution Factor: 1
Lab File ID: I31D007023 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	1.1	1		.4
Lead	7.11	1		.2
Selenium	ND	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: C.24S.1 Date Analyzed: 04/28/06 17:16
Lab Samp ID: D171-12 Dilution Factor: 1
Lab File ID: I31D007024 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.685J	1		.4
Lead	7.82	1		.2
Selenium	.959J	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: C.29S.1 Date Analyzed: 04/28/06 17:20
Lab Samp ID: D171-13 Dilution Factor: 1
Lab File ID: I31D007025 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	.822J	1		.4
Lead	8.06	1		.2
Selenium	1.14	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.3S.1B Date Analyzed: 04/28/06 17:25
Lab Samp ID: D171-14 Dilution Factor: 1
Lab File ID: I31D007026 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		RL	MDL
	(mg/kg)	(mg/kg)		(mg/kg)
Arsenic	2.46	1		.4
Lead	22.8	1		.2
Selenium	ND	1		.5
Thallium	ND	1		.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM Date Collected: 04/21/06
Project : HALACO Date Received: 04/21/06
SDG NO. : 06D171 Date Extracted: 04/26/06 10:00
Sample ID: Y.1S.1DL Date Analyzed: 04/28/06 17:32
Lab Samp ID: D171-02J Dilution Factor: 5
Lab File ID: I31D007027 Matrix : SOIL
Ext Btch ID: IPD033S % Moisture : NA
Calib. Ref.: I31D007020 Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	5	2
Lead	14.4	5	1
Selenium	ND	5	2.5
Thallium	ND	5	2.5

METHOD 3050B/6010B
METALS BY TRACE ICP

=====
Client : AECOM
Project : HALACO
SDG NO. : 06D171
Sample ID: MBLK1W
Lab Samp ID: IPD033SB
Lab File ID: I31D007010
Ext Btch ID: IPD033S
Calib. Ref.: I31D007008
Date Collected: NA
Date Received: 04/26/06
Date Extracted: 04/26/06 10:00
Date Analyzed: 04/28/06 15:58
Dilution Factor: 1
Matrix : SOIL
% Moisture : NA
Instrument ID : EMAXT131
=====

PARAMETERS	RESULTS		
	(mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1	.4
Lead	ND	1	.2
Selenium	ND	1	.5
Thallium	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

=====

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IPD033SB IPD033SL IPD033SC
LAB FILE ID: I31D007010 I31D007011 I31D007012
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 04/26/0610:00 DATE COLLECTED: NA
DATE TIME ANALYZD: 04/28/0615:58 04/28/0616:03 04/28/0616:08 DATE RECEIVED: 04/26/06
PREP. BATCH: IPD033S IPD033S IPD033S
CALIB. REF: I31D007008 I31D007008 I31D007008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	100	88.2	88	100	89.6	90	2	80-120	20
Lead	ND	100	93	93	100	94.5	94	2	80-120	20
Selenium	ND	100	85.4	85	100	85.9	86	1	80-120	20
Thallium	ND	100	92.4	92	100	94.4	94	2	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILT N FACTR: 1 1 1
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02M D171-02S
LAB FILE ID: I31D007013 I31D007029 I31D007030
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0616:15 04/28/0617:41 04/28/0617:46 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S IPD033S
CALIB. REF: I31D007008 I31D007020 I31D007020

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	.76J	100	78.8	78	100	82.4	82	4	75-125	20
Lead	13.2	100	88.9	76	100	93.4	80	5	75-125	20
Selenium	.715J	100	77.1	76	100	81.4	81	5	75-125	20
Thallium	ND	100	80.2	80	100	83.9	84	5	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
SDG NO.: 06D171
METHOD: METHOD 3050B/6010B

=====

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1
SAMPLE ID: Y.1S.1
CONTROL NO.: D171-02 D171-02A
LAB FILE ID: I31D007013 I31D007028
DATE TIME EXTRCTD: 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE TIME ANALYZD: 04/28/0616:15 04/28/0617:37 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S
CALIB. REF: I31D007008 I31D007020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----
Arsenic	.76J	100	85.3	85	75-125
Lead	13.2	100	98.1	85	75-125
Selenium	.715J	100	85.4	85	75-125
Thallium	ND	100	87	87	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: AECOM
PROJECT: HALACO
BATCH NO.: 06D171
METHOD: METHOD 3050B/6010B
=====

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 5
SAMPLE ID: Y.1S.1 Y.1S.1DL
EMAX SAMP ID: D171-02 D171-02J
LAB FILE ID: I31D007013 I31D007027
DATE EXTRACTED: 04/26/0610:00 04/26/0610:00 DATE COLLECTED: 04/21/06
DATE ANALYZED: 04/28/0616:15 04/28/0617:32 DATE RECEIVED: 04/21/06
PREP. BATCH: IPD033S IPD033S
CALIB. REF: I31D007008 I31D007020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
-----	-----	-----	-----	-----
Arsenic	.76J	ND	NA	10
Lead	13.2	14.4	9	10
Selenium	.715J	ND	NA	10
Thallium	ND	ND	0	10