AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

EDMC#: 0069516
SECTION: 1 OF 2

DOCUMENT #: F1242

TITLE: Data Package

0069516

SAF-RC-051
100 & 300 Area Component of the RCBRA - Incremental Soil Sampling
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jill Thomson	H0-23	____NB 4/25/06 INITIAL/DATE
Jeanette Duncan	H9-02	___NB 4/25/06 INITIAL/DATE

COMMENTS:

SDG _F1242___ SAF-RC-051

Rad only X Chem only Rad & Chem

X Complete Partial

Waste Site: Cr - Sediments

RECEIVED
MAY 0 4 2006
EDMC

CH2M HILL
Applied Sciences Laboratory
2300 NW Walnut Blvd
Corvallis, OR
97330-3538
P.O. Box 428
Corvallis, OR
97339-0428
Tel 541.752.4271
Fax 541.752.0276

CH2MHILL
Applied Sciences Laboratory

March 27, 2006

ELR Consulting
2328 S. Garfield Street
Kennewick, WA 99337

RECEIVED
APR 2006

RE: Laboratory Report for ELR Consulting
Applied Sciences Laboratory Reference No. F1242

Dear Emmett Richards:

On February 23, 2006, CH2M HILL Applied Sciences Laboratory received seven samples with a request for analysis of selected parameters. All analyses were performed by CH2M HILL unless otherwise indicated below.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analysis of your samples are discussed in the case narrative. This data package meets standards requested by client and is not intended or implied to meet any other standard.

CH2M HILL Applied Sciences Laboratory appreciates your business and looks forward to serving your analytical needs again. If you should have any questions concerning the data, or if you need additional information, please call Mark Bos at (541) 758-0235, extension 3135.

Sincerely,

Mark Bos
Analytical Manager

Enclosures

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Applied Sciences Laboratory Reference No. F1242

Sample ID	Client Sample ID	Date Collected	Time Collected
F124201	J112B3	02/21/2006	
F124202	J112B4	02/21/2006	
F124203	J112B5	02/21/2006	
F124204	J112B6	02/21/2006	
F124205	J116M6	02/21/2006	
F124206	J116M7	02/21/2006	
F124207	J11734	02/21/2006	

Table of Contents
CH2M HILL Laboratory Reference No. F1242

Page

Ammonia Analysis by Method EPA350.3 5
Sample Data Summary 7
QC Summary 16

Anions Analysis by Method E300.0 25
Sample Data Summary 27
QC Summary 36

Moisture Analysis by Method ASTM D2216 48

Particle Size Analysis by Method D422 56

pH Analysis by Method SW9045C 64

Total Kjeldahl Nitrogen Analysis by Method EPA351.4 73
Sample Data Summary 75
QC Summary 84

Total Organic Carbon Analysis by Method ASTM E777 94
Sample Data Summary 96
QC Summary 105

Chain of Custody/Shipping Documents 115

Applied Sciences Laboratory

Organic CLP and CLP Like Data Qualifiers

U — The analyte was analyzed for, but not detected above the reported sample quantitation limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N — The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ — The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

P — The primary and confirmation analyte result recoveries do not match.

E — The analyte was positively identified; the associated numerical value exceeded the instrument calibration range.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Inorganic CLP and CLP Like Data Qualifiers

U — The analyte was analyzed for, but not detected above the reported sample quantitation limit.

B — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

E — The analyte was positively identified; the associated numerical value exceeded the instrument calibration range.

N — The matrix spike/matrix spike duplicate recovery for the analyte is outside of acceptance criteria—qualifier is applied to the native sample only.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

AMMONIA
METHOD EPA 350.3

CASE NARRATIVE
AMMONIA

Analytical Method: EPA 350.3 Batch No.: F1242

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Project Name: ELR Consulting Prime Contractor.: _____

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate(MS/MSD)
All analyses were performed in accordance with standard operating procedures.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Duplicate Sample(s):
All analyses were performed in accordance with standard operating procedures.

F. Analytical Exceptions:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Elizabeth M Tepps Date: 3-15-06

Reviewed by: [signature] Date: 3/20/06

SAMPLE DATA SUMMARY

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.10	4.13	3.63	B	mg/kg	1	0.5205 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124202

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.11	4.17	3.74	B	mg/kg	1	0.5159 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124203

% Moisture: 4

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.10	4.12	4.25		mg/kg	1	0.5051 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124204

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.03	3.88	5.07		mg/kg	1	0.532 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124205

% Moisture: 3

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.07	4.02	5.79		mg/kg	1	0.5124 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Matrix: SOIL

% Moisture: 5

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124206

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.987	3.70	5.18		mg/kg	1	0.5695 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Matrix: SOIL

% Moisture: 5

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124207

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.13	4.24	4.21	B	mg/kg	1	0.4965 G	E350.3	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0228

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0228

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.534	2.00	1.68	B	mg/kg	1	1 G	E350.3	02/28/06

QC DATA
SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 02/28/06 1520

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 022806NH3

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Ammonia-N	0.10	163	1.0	114	10.0	56.9	100	0.90						

Comments:

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 02/28/06 1520

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 022806NH3

Analyte	Curve Type	r	Q
Ammonia-N	LNR	0.9988	

Comments:

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Second Source ID: ICV-0228

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 022806NH3

Analyte	Expected	Found	%D	Q
Ammonia-N	1	0.899	-10.1	

Comments:

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Analytical Lot ID: 022806NH3

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 022806NH3

CCV #1 ID: CV1-0228 CCV #2 ID: CV2-0228 CCV #3 ID: CV3-0228

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Ammonia-N	1	0.869	-13.1		10	9.86	-1.4		1	0.911	-8.9	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0228

SDG No.: F1242

Analysis Method: E350.3

Initial Cal ID: 022806NH3

Matrix: (Soil/Water) SOIL

Instrument: NONE

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0228

Date Analyzed: 02/28/06

Time Analyzed: 1541

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
05	BS1S0228	BS1S0228	02/28/06	1526
08	J112B3	F124201	02/28/06	1542
09	J112B4	F124202	02/28/06	1545
10	J112B5	F124203	02/28/06	1547
11	J112B6	F124204	02/28/06	1550
12	J116M6	F124205	02/28/06	1551
13	J116M7	F124206	02/28/06	1553
14	J11734	F124207	02/28/06	1557

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

LCS ID: BS1S0228

Initial Cal ID: 022806NH3

Date Analyzed: 02/28/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1526

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Ammonia-N	20	18.0	89.9	80-120	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 022806NH3

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL-1	LEVEL-1	02/28/06	1500
02	LEVEL-2	LEVEL-2	02/28/06	1505
03	LEVEL-3	LEVEL-3	02/28/06	1510
04	LEVEL-4	LEVEL-4	02/28/06	1515
05	CV1-0228	CV1-0228	02/28/06	1520
06	CV2-0228	CV2-0228	02/28/06	1522
07	ICV-0228	ICV-0228	02/28/06	1526
09	BS1S0228	BS1S0228	02/28/06	1526
10	SB1-0228	SB1-0228	02/28/06	1541
12	J112B3	F124201	02/28/06	1542
13	J112B4	F124202	02/28/06	1545
14	J112B5	F124203	02/28/06	1547
15	J112B6	F124204	02/28/06	1550
16	J116M6	F124205	02/28/06	1551
17	J116M7	F124206	02/28/06	1553
18	J11734	F124207	02/28/06	1557
22	CV3-0228	CV3-0228	02/28/06	1606

COMMENTS: _____

CH2MHILL
Applied Sciences Laboratory

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2300 NW Walnut Blvd.
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Telephone: 541-752-4271
Fax: 541-752-0276

03/15/06

MDL Study Report

Analytical Method: E350.3

Matrix: Soil

Instrument ID: NONE

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Ammonia	08/05/05	2	2.18	1.70	1.73	1.70	1.73	1.74	1.81		0.170	0.534

ANIONS BY METHOD EPA300.0A

CASE NARRATIVE
ANIONS

Analytical Method: EPA300.0 Batch No.: F1242

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Base/Command: ELR Consulting Prime Contractor.: _____

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate Sample(s):
Samples were analyzed in accordance with SOP.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Analytical Exception:
None.

F. Other:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: _____ Date: 3/22/06

Reviewed by: _____ Date: 3/22/06

AFCEE FORM I-1

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0486	0.400	0.661		mg/kg	1	6.713 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0435	0.400	0.400	U	mg/kg	1	6.713 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0376	0.400	1.31		mg/kg	1	6.713 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0360	0.400	0.176	B	mg/kg	1	6.713 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0646	0.400	0.925		mg/kg	1	6.713 G	E300.0A	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124202

% Moisture: 7

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0524	0.432	0.725		mg/kg	1	6.225 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0469	0.432	0.432	U	mg/kg	1	6.225 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0405	0.432	1.24		mg/kg	1	6.225 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0388	0.432	1.24		mg/kg	1	6.225 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0696	0.432	1.24		mg/kg	1	6.225 G	E300.0A	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124203

% Moisture: 4

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0522	0.430	0.125	B	mg/kg	1	6.063 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0466	0.430	0.430	U	mg/kg	1	6.063 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0403	0.430	0.534		mg/kg	1	6.063 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0386	0.430	0.461		mg/kg	1	6.063 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0693	0.430	1.51		mg/kg	1	6.063 G	E300.0A	03/02/06

YL060321-15:34-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124204

% Moisture: 3

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0521	0.429	0.176	B	mg/kg	1	6.004 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0466	0.429	0.429	U	mg/kg	1	6.004 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0403	0.429	4.16		mg/kg	1	6.004 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0385	0.429	0.713		mg/kg	1	6.004 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0692	0.429	3.19		mg/kg	1	6.004 G	E300.0A	03/02/06

YL060321-15:34-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124205

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0515	0.424	1.50		mg/kg	1	6.078 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0460	0.424	0.424	U	mg/kg	1	6.078 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0398	0.424	9.39		mg/kg	1	6.078 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0381	0.424	0.773		mg/kg	1	6.078 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0684	0.424	4.36		mg/kg	1	6.078 G	E300.0A	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124206

% Moisture: 5

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0576	0.474	0.323	B	mg/kg	1	5.547 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0515	0.474	0.474	U	mg/kg	1	5.547 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0445	0.474	1.28		mg/kg	1	5.547 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0426	0.474	0.423	B	mg/kg	1	5.547 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0765	0.474	2.27		mg/kg	1	5.547 G	E300.0A	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124207

% Moisture: 5

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0603	0.496	0.328	B	mg/kg	1	5.303 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.0539	0.496	0.496	U	mg/kg	1	5.303 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0466	0.496	1.22		mg/kg	1	5.303 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0446	0.496	0.496		mg/kg	1	5.303 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.0800	0.496	2.25		mg/kg	1	5.303 G	E300.0A	03/02/06

YL060321-15:34-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0302

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0302

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.121	1.00	0.200	B	mg/kg	1	2.5 G	E300.0A	03/02/06
16984-48-8	Fluoride	0.109	1.00	1.00	U	mg/kg	1	2.5 G	E300.0A	03/02/06
14797-55-8	Nitrate-N	0.0939	1.00	1.00	U	mg/kg	1	2.5 G	E300.0A	03/02/06
14797-65-0	Nitrite-N	0.0898	1.00	1.00	U	mg/kg	1	2.5 G	E300.0A	03/02/06
14808-79-8	Sulfate	0.161	1.00	1.00	U	mg/kg	1	2.5 G	E300.0A	03/02/06

QC DATA SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 01/30/06 18:27

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Chloride	0.020	0.0032	0.050	0.0041	0.10	0.023	0.50	0.050	1.0	0.11	5.0	0.67	10.0	1.5
Fluoride					0.10	0.0085	0.50	0.046	1.0	0.13	5.0	0.85	10.0	1.8
Nitrate-N	0.020	0.0059	0.050	0.012	0.10	0.067	0.50	0.14	1.0	0.32	5.0	1.8	10.0	4.1
Nitrite-N	0.020	0.0067	0.050	0.012	0.10	0.050	0.50	0.10	1.0	0.25	5.0	1.4	10.0	3.0
Sulfate	0.060	0.0065	0.15	0.014	0.30	0.059	1.5	0.13	3.0	0.27	15.0	1.5	30.0	3.2

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 01/30/06 18:27

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Curve Type	r	Q
Chloride	LNR	0.9985	
Fluoride	LNR	0.9988	
Nitrate-N	LNR	0.9983	
Nitrite-N	LNR	0.9988	
Sulfate	LNR	0.9991	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Second Source ID: ICV-0130

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Expected	Found	%D	Q
Chloride	5	5.06	1.2	
Fluoride	5	4.57	-8.6	
Nitrate-N	7.19	7.13	-0.8	
Nitrite-N	1.13	1.02	-9.4	
Sulfate	5	5.14	2.8	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Analytical Lot ID: 030206Q1

Instrument Name: ICQ

Concentration Units: mg/kg

Initial Calibration ID: 300A-013006

CCV #1 ID: CV1-0302 CCV #2 ID: CV2-0302 CCV #3 ID: CV3-0302

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Chloride	5	5.36	7.1		5	5.34	6.8		2.5	2.68	7.1	
Fluoride	5	5.43	8.5		5	5.41	8.2		2.5	2.63	5.2	
Nitrate-N	5	5.38	7.5		5	5.36	7.1		2.5	2.71	8.3	
Nitrite-N	5	5.47	9.4		5	5.30	6.0		2.5	2.73	9.4	
Sulfate	15	16.1	7.0		15	16.3	8.8		7.5	8.15	8.7	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0302

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Sample ID: SB1-0302

Initial Cal ID: 300A-013006

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1426

Instrument: ICQ

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
16	BS1S0302	BS1S0302	03/02/06	1347
18	BS2S0302	BS2S0302	03/02/06	1407
19	BS3S0302	BS3S0302	03/02/06	1416
25	J112B3	F124201	03/02/06	1534
26	J112B4	F124202	03/02/06	1544
27	J112B5	F124203	03/02/06	1553
28	J112B6	F124204	03/02/06	1603
29	J116M6	F124205	03/02/06	1613
30	J116M7	F124206	03/02/06	1622
32	J11734	F124207	03/02/06	1642

COMMENTS: _____

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS1S0302

Initial Cal ID: 300A-013006

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1347

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Chloride	50	50.6	101.1	70-130	
Fluoride	50	54.7	109.3	70-130	
Sulfate	50	53.1	106.2	70-130	

* Values outside of QC limits

Comments:

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS2S0302

Initial Cal ID: 300A-013006

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1407

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrite-N	11.3	11.5	101.5	70-130	

* Values outside of QC limits

Comments:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS3S0302

Initial Cal ID: 300A-013006

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1416

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrate-N	71.9	78.6	109.2	70-130	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 300A-013006

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	LEVEL1	LEVEL1	01/30/06	1729
03	LEVEL2	LEVEL2	01/30/06	1739
04	LEVEL3	LEVEL3	01/30/06	1749
05	LEVEL4	LEVEL4	01/30/06	1758
06	LEVEL5	LEVEL5	01/30/06	1808
07	LEVEL6	LEVEL6	01/30/06	1818
08	LEVEL7	LEVEL7	01/30/06	1827
10	ICV-0130	ICV-0130	01/30/06	1846
11	ICV-0130	ICV-0130	01/30/06	1856
13	ICV-0130	ICV-0130	01/30/06	1916

COMMENTS: _____

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 030206Q1

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
15	CV1-0302	CV1-0302	03/02/06	1338
16	BS1S0302	BS1S0302	03/02/06	1347
18	BS2S0302	BS2S0302	03/02/06	1407
19	BS3S0302	BS3S0302	03/02/06	1416
20	SB1-0302	SB1-0302	03/02/06	1426
25	J112B3	F124201	03/02/06	1534
26	J112B4	F124202	03/02/06	1544
27	J112B5	F124203	03/02/06	1553
28	J112B6	F124204	03/02/06	1603
29	J116M6	F124205	03/02/06	1613
30	J116M7	F124206	03/02/06	1622
31	CV2-0302	CV2-0302	03/02/06	1632
32	J11734	F124207	03/02/06	1642
33	CV3-0302	CV3-0302	03/02/06	1651

COMMENTS: _____

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03/21/06

MDL Study Report

Analytical Method: E300.0A

Matrix: Soil

Instrument ID: ICQ

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Nitrate	11/01/05	0.25	0.225	0.250	0.215	0.240	0.245	0.225	0.255		0.0149	0.0469
Nitrite-N	11/01/05	0.25	0.230	0.270	0.270	0.260	0.270	0.260	0.265		0.0143	0.0449
Sulfate	11/01/05	0.75	0.790	0.735	0.730	0.795	0.775	0.750	0.760		0.0256	0.0806
Chloride	11/01/05	0.25	0.315	0.315	0.340	0.340	0.290	0.300	0.330		0.0193	0.0607
Fluoride	11/02/05	0.5	0.505	0.480	0.500	0.470	0.490	0.485	0.455		0.0173	0.0543

PERCENT MOISTURE
ASTM D2216

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	6.99		%	1	11.4068 G	ASTM D2216	03/07/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124202

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	7.03		%	1	8.714 G	ASTM D2216	03/07/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124203

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	4.28		%	1	14.8967 G	ASTM D2216	03/07/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124204

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	3.05		%	1	16.7919 G	ASTM D2216	03/07/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124205

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	3.17		%	1	13.0987 G	ASTM D2216	03/07/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124206

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	5.23		%	1	11.8309 G	ASTM D2216	03/07/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124207

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	5.01		%	1	12.8073 G	ASTM D2216	03/07/06

PARTICLE SIZE
METHOD 422

Hanford

Particle Size

437.2 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KE 03/20/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124201	J112B3	8	2362	2.362	11.30	2.59	2.59	97.41
		16	1180	1.180	16.40	3.76	6.34	93.66
		30	600	0.600	19.20	4.40	10.74	89.26
		50	500	0.500	42.00	9.62	20.36	79.64
		100	147	0.147	257.00	58.86	79.23	20.77
		200	75	0.075	75.30	17.25	96.47	3.53
		pan			15.40	3.53	100.00	0.00
		total			436.6			

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Hanford

Particle Size

499.4 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KE 03/20/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124202	J112B4	8	2362	2.362	21.60	4.37	4.37	95.63
		16	1180	1.180	27.50	5.56	9.93	90.07
		30	600	0.600	22.30	4.51	14.43	85.57
		50	500	0.500	73.80	14.92	29.35	70.65
		100	147	0.147	279.30	56.46	85.81	14.19
		200	75	0.075	58.10	11.74	97.55	2.45
		pan			12.10	2.45	100.00	0.00
		total			494.7			

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Hanford

Particle Size

717.2 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KE 03/20/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124203	J112B5	8	2362	2.362	119.30	16.65	16.65	83.35
		16	1180	1.180	169.50	23.66	40.31	59.69
		30	600	0.600	163.90	22.88	63.18	36.82
		50	500	0.500	137.40	19.18	82.36	17.64
		100	147	0.147	55.30	7.72	90.08	9.92
		200	75	0.075	55.50	7.75	97.82	2.18
		pan			15.60	2.18	100.00	0.00
		total			716.5			

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Hanford

Particle Size

1015.5 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KE 03/23/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124204	J112B6	8	2362	2.362	156.30	15.41	15.41	84.59
		16	1180	1.180	203.10	20.03	35.44	64.56
		30	600	0.600	252.70	24.92	60.35	39.65
		50	500	0.500	221.60	21.85	82.20	17.80
		100	147	0.147	76.60	7.55	89.76	10.24
		200	75	0.075	75.40	7.43	97.19	2.81
		pan			28.50	2.81	100.00	0.00
		total			1014.2			

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Hanford

Particle Size

742.3 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/23/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124205	J116M6	8	2362	2.362	15.80	2.13	2.13	97.87
		16	1180	1.180	34.70	4.68	6.81	93.19
		30	600	0.600	291.00	39.27	46.08	53.92
		50	500	0.500	192.20	25.93	72.01	27.99
		100	147	0.147	112.10	15.13	87.14	12.86
		200	75	0.075	61.20	8.26	95.40	4.60
		pan			34.10	4.60	100.00	0.00
		total			741.1			

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Hanford

Particle Size

603.1 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/23/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124206	J116M7	8	2362	2.362	40.90	6.80	6.80	93.20
		16	1180	1.180	94.50	15.70	22.50	77.50
		30	600	0.600	173.40	28.81	51.31	48.69
		50	500	0.500	107.60	17.88	69.19	30.81
		100	147	0.147	90.20	14.99	84.18	15.82
		200	75	0.075	67.30	11.18	95.36	4.64
		pan			27.90	4.64	100.00	0.00
		total			601.8			

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Hanford

Particle Size

574.9 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KE 03/23/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F124207	J11734	8	2362	2.362	40.50	7.06	7.06	92.94
		16	1180	1.180	85.70	14.94	22.00	78.00
		30	600	0.600	163.00	28.42	50.42	49.58
		50	500	0.500	108.50	18.92	69.33	30.67
		100	147	0.147	97.50	17.00	86.33	13.67
		200	75	0.075	61.40	10.70	97.04	2.96
		pan			17.00	2.96	100.00	0.00
		total			573.6			

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pH
METHOD SW9045C

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.05		pH	1	20 G	SW9045C	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124202

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.01		pH	1	20 G	SW9045C	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Matrix: SOIL

% Moisture: 4

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124203

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.74		pH	1	20 G	SW9045C	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124204

% Moisture: 3

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.90		pH	1	20 G	SW9045C	02/28/06

ET060315-18:58-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124205

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	6.60		pH	1	20 G	SW9045C	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Matrix: SOIL

% Moisture: 5

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124206

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.17		pH	1	20 G	SW9045C	02/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Matrix: SOIL

% Moisture: 5

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124207

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.09		pH	1	20 G	SW9045C	02/28/06

ET060315-18:58-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0228

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0228

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	6.62		pH	1	20 G	SW9045C	02/28/06

TKN
METHOD EPA 351.4

CASE NARRATIVE
TKN

Analytical Method: EPA 351.4 Batch No.: F1242

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Project Name: ELR Consulting Prime Contractor.:

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate(MS/MSD)
All analyses were performed in accordance with standard operating procedures.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Duplicate Sample(s):
All analyses were performed in accordance with standard operating procedures.

F. Analytical Exceptions:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Elizabeth Ufkes Date: 3-15-06

Reviewed by: Date: 3/20/06

SAMPLE DATA
SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	46.1	220	1000		mg/kg	1	0.4885 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124202

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	42.5	203	855		mg/kg	1	0.5302 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Matrix: SOIL

% Moisture: 4

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124203

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	41.3	197	341		mg/kg	1	0.5292 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124204

% Moisture: 3

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	40.8	195	376		mg/kg	1	0.53 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124205

% Moisture: 3

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	41.8	199	430		mg/kg	1	0.5173 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Matrix: SOIL

% Moisture: 5

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124206

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	44.2	211	516		mg/kg	1	0.4995 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124207

% Moisture: 5

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	44.0	210	488		mg/kg	1	0.5009 G	E351.4	03/02/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0302

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: SB1-0302

% Moisture: 0

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	21.0	100	62.0	B	mg/kg	1	1 G	E351.4	03/02/06

QC DATA SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 03/02/06 1515

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 030206TKN

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Total Kjeldahl Nitrogen	2.0	161	20.0	110	200	53.9	2000	-1.5						

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 03/02/06 1515

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 030206TKN

Analyte	Curve Type	r	Q
Total Kjeldahl Nitrogen as N	LNR	0.9997	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Second Source ID: ICV-0302

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 030206TKN

Analyte	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	13.6	15.7	15.4*	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Analytical Lot ID: 030206TKN

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 030206TKN

CCV #1 ID: CV1-0302 CCV #2 ID: CV2-0302 CCV #3 ID: CV3-0302

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	20	18.7	-6.3		200	198	-1.1		20	20.1	0.3	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Analytical Lot ID: 030206TKN

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 030206TKN

CCV #4 ID: CV4-0302 CCV #5 ID: CCV #6 ID:

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	20	18.2	-9.0									

Comments:

3-WC

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0302

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Lab Sample ID: SB1-0302

Initial Cal ID: 030206TKN

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1559

Instrument: NONE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
05	BS1S0302	BS1S0302	03/02/06	1549
16	J112B3	F124201	03/02/06	1704
17	J112B4	F124202	03/02/06	1707
19	J112B5	F124203	03/02/06	1734
20	J112B6	F124204	03/02/06	1737
21	J116M6	F124205	03/02/06	1739
22	J116M7	F124206	03/02/06	1740
23	J11734	F124207	03/02/06	1744

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

LCS ID: BS1S0302

Initial Cal ID: 030206TKN

Date Analyzed: 03/02/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1549

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Total Kjeldahl Nitrogen as N	680	785	115.4	75-125	

* Values outside of QC limits

Comments:

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 030206TKN

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL-1	LEVEL-1	03/02/06	1515
02	LEVEL-2	LEVEL-2	03/02/06	1518
03	LEVEL-3	LEVEL-3	03/02/06	1520
04	LEVEL-4	LEVEL-4	03/02/06	1525
05	CV1-0302	CV1-0302	03/02/06	1528
06	CV2-0302	CV2-0302	03/02/06	1528
07	ICV-0302	ICV-0302	03/02/06	1549
20	J112B3	F124201	03/02/06	1704
21	J112B4	F124202	03/02/06	1707
22	CV3-0302	CV3-0302	03/02/06	1717
23	J112B5	F124203	03/02/06	1734
24	J112B6	F124204	03/02/06	1737
25	J116M6	F124205	03/02/06	1739
26	J116M7	F124206	03/02/06	1740
27	J11734	F124207	03/02/06	1744
28	CV4-0302	CV4-0302	03/02/06	1755

COMMENTS: _____

CH2MHILL
Applied Sciences Laboratory

CH2M HILL
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Telephone: 541-752-4271
Fax: 541-752-0276

03/15/06

MDL Study Report

Analytical Method: E351.4

Matrix: Soil

Instrument ID: NONE

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Total Kjeldahl Nitrogen	03/17/05	100	100	109	113	103	101	116	99.8		6.66	21.0

TOTAL ORGANIC CARBON
BY ASTM E777

CASE NARRATIVE
TOC-SOILS

Analytical Method: ASTM E-777 Batch No.: F1242

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Project Name: ELR Consulting Prime Contractor.: _____

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate(MS/MSD)
All analyses were performed in accordance with standard operating procedures.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Duplicate Sample(s):
All analyses were performed in accordance with standard operating procedures.

F. Analytical Exceptions:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: [signature] Date: 3-21-06

Reviewed by: [signature] Date: 3-21-06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B3

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124201

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	133	381	16600		mg/kg	1	0.2624 G	ASTM E-777	03/06/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B4

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124202

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	74.1	212	7010		mg/kg	1	0.4719 G	ASTM E-777	03/06/06

AD060321-11:06-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B5

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124203

% Moisture: 0

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	92.9	266	1260		mg/kg	1	0.3764 G	ASTM E-777	03/06/06

AD060321-11:06-F1242-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B6

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124204

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	80.7	231	3980		mg/kg	1	0.433 G	ASTM E-777	03/06/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M6

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F124205

% Moisture: 0

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	99.8	285	6450		mg/kg	1	0.3503 G	ASTM E-777	03/06/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M7

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124206

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	109	311	6020		mg/kg	1	0.3212 G	ASTM E-777	03/06/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11734

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F124207

Date Received: 02/23/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	121	347	7980		mg/kg	1	0.288 G	ASTM E-777	03/06/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0306

SDG No.: F1242

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0306

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	35.0	100	100	U	mg/kg	1	1 G	ASTM E-777	03/06/06

QC SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Initial Calibration Date: 10/14/05 11:48

Instrument Name: TOC Skalar

Concentration Units: mg/Kg

Initial Calibration ID: 101405S1

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Total Organic Carbon	100	737000	200	1600000	1000	6840000	4000	2.48E+7	8000	4.79E+7				

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Initial Calibration Date: 10/14/05 11:48

Instrument Name: TOC Skalar

Concentration Units: mg/Kg

Initial Calibration ID: 101405S1

Analyte	Curve Type	r	Q
Total Organic Carbon	LNR	0.9997	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Second Source ID: ICV-1014

Instrument Name: TOC Skalar

Concentration Units: mg/kg

Initial Calibration ID: 101405S1

Analyte	Expected	Found	%D	Q
Total Organic Carbon	6430	6680	3.9	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Analytical Lot ID: 030606TOCS

Instrument Name: TOC Skalar

Concentration Units: mg/kg

Initial Calibration ID: 101405S1

CCV #1 ID: CV1-0306 CCV #2 ID: CV2-0306 CCV #3 ID: CV3-0306

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Organic Carbon	4000	3710	-7.3		4000	4150	3.9		4000	4130	3.2	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0306

SDG No.: F1242

Analysis Method: ASTM E-777

Initial Cal ID: 101405S1

Matrix: (Soil/Water) SOIL

Instrument: TOC SKALAR

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0306

Date Analyzed: 03/06/06

Time Analyzed: 1036

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	BS1S0306	BS1S0306	03/06/06	1025
18	J112B3	F124201	03/06/06	1657
19	J112B4	F124202	03/06/06	1712
20	J112B5	F124203	03/06/06	1722
21	J112B6	F124204	03/06/06	1731
22	J116M6	F124205	03/06/06	1741
23	J116M7	F124206	03/06/06	1751
24	J11734	F124207	03/06/06	1800

COMMENTS:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1242

Analysis Method: ASTM E-777

Initial Cal ID: 101405S1

Matrix: (Soil/Water) SOIL

Instrument: TOC SKALAR

Lab Name: CH2M HILL/LAB/CVO

LCS ID: BS1S0306

Date Analyzed: 03/06/06

Time Analyzed: 1025

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Total Organic Carbon	8840	9140	103.3	75-125	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Lab Code: CVO

Instrument: TOC SKALAR

Analytical Lot ID: 101405TOCS

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	LEVEL1	LEVEL1	10/14/05	1148
03	LEVEL2	LEVEL2	10/14/05	1158
04	LEVEL3	LEVEL3	10/14/05	1208
05	LEVEL4	LEVEL4	10/14/05	1218
06	LEVEL5	LEVEL5	10/14/05	1228
07	ICV-1014	ICV-1014	10/14/05	1252

COMMENTS: _____

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1242

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Lab Code: CVO

Instrument: TOC SKALAR

Analytical Lot ID: 030606TOCS

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	CV1-0306	CV1-0306	03/06/06	1011
02	BS1S0306	BS1S0306	03/06/06	1025
03	SB1-0306	SB1-0306	03/06/06	1036
14	CV2-0306	CV2-0306	03/06/06	1548
18	J112B3	F124201	03/06/06	1657
19	J112B4	F124202	03/06/06	1712
20	J112B5	F124203	03/06/06	1722
21	J112B6	F124204	03/06/06	1731
22	J116M6	F124205	03/06/06	1741
23	J116M7	F124206	03/06/06	1751
24	J11734	F124207	03/06/06	1800
27	CV3-0306	CV3-0306	03/06/06	1810

COMMENTS: _____

CH2MHILL
Applied Sciences Laboratory

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Fax: 541-752-0276

03/21/06

MDL Study Report

Analytical Method: ASTM E-777

Instrument ID: TOC Skalar

Matrix: Soil

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Total Organic Carbon	08/17/05	140	31.0	14.4	8.89	29.4	32.4	27.1	6.37		11.1	35.0

CHAIN OF CUSTODY/SHIPPING DOCUMENTS

F1242

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-23	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 1, SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-008	Field Logbook No. EL-15967 4/5 13106	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS
POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage
COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	Poly Bag	Poly Bag								
No. of Container(s)	2 JPB 2-21-06	1	2 JPB 2-21-06								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J112B3	OTHER SOLID	2-21-06	1100	X	X	X							—1

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	JAMES BERNHARD	2-21-06 1900	EAS LOCKED STORAGE	2-21-06 1900
Relinquished By/Removed From EAS LOCKED STORAGE		2-22-06 0630	Received By/Stored In RZ Stoffler	2-22-06 0630
Relinquished By/Removed From RZ Stoffler		2-22-06 1600	Received By/Stored In Fed Ex	
Relinquished By/Removed From Fed Ex			Received By/Stored In Brett Mulkey	2-23-06 1050
Relinquished By/Removed From Brett Mulkey		2-23-06 1415	Received By/Stored In Melody Burton	2-23-06 14:15
Relinquished By/Removed From			Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B153Z-23 for Analytical cc: sends intact
F1242-01 for chem

6.1°C on arrival

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1242 287

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-24	Page 1 of 1

Collector: TILLER JAMES BERNHARD	Company Contact: JOAN KESSNER	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH	Price Code: 9N	Data Turnaround: 21 Days
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: Cr 2, SEDIMENT		SAF No.: RC-047	Air Quality ☐	
Ice Chest No.: AFS-04-008	Field Logbook No.: EL-1596 7 4/4/2005	COA: BESRAS6520	Method of Shipment: GROUND TRANSPORT		
Shipped To: CH2MHILL	Offsite Property No.: A060151		Bill of Lading/Air Bill No.: SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS
POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage
COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	Poly Bag	Poly Bag								
No. of Container(s)	2 JED 2-21-06	1	10 JEB 2-21-06								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time											
J112B4	OTHER SOLID	2-21-06	1700	X	X	X								-2

CHAIN OF POSSESSION	Sign/Print Names
Relinquished By/Removed From: JAMES BERNHARD Date/Time 2-21-06 1900	Received By/Stored In: EAS LOCKED STORAGE Date/Time 2-21-06 1900
Relinquished By/Removed From: EAS LOCKED STORAGE Date/Time 2-22-06 0830	Received By/Stored In: RZ Stiffler Date/Time 2-22-06 0830
Relinquished By/Removed From: RZ Stiffler Date/Time 2-22-06 1600	Received By/Stored In: Fed Ex Date/Time
Relinquished By/Removed From: Fed Ex Date/Time	Received By/Stored In: Scott Markey Date/Time 2-23-06 1450
Relinquished By/Removed From: Scott Markey Date/Time 2-23-06 1445	Received By/Stored In: Melody Beckman Date/Time 2-23-06 1415
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-24 for Hydrilla cons sediments that
F1242-02 for chem

Bill in on arrival 2-23

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A= Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHHEE-011 (08/29/2005)

F1242 3787

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-25	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 3, SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-008	Field Logbook No. EL-1596 7 AH 12106	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	Poly Bag	Poly Bag								
No. of Container(s)	+2 SEA 2-21-06	1	+1 SEA 2-21-06								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J112B5	OTHER SOLID	2-21-06	1300	X	X	X							-3

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From JAMES BERNHARD	Date/Time 1900 2-21-06	Received By/Stored In EAS LOCKED STORAGE	Date/Time 1900 2-21-06
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 0830 2-22-06	Received By/Stored In RZ Steffler R.Z. Steffler	Date/Time 0830 2-22-06
Relinquished By/Removed From RZ Steffler R.Z. Steffler	Date/Time 1600 2-22-06	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From Fed Ex	Date/Time	Received By/Stored In Brett Mulley	Date/Time 1050 2-23-06
Relinquished By/Removed From Brett Mulley	Date/Time 1415 2-23-06	Received By/Stored In M Beckum	Date/Time 2-23-06 14:15
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1539-25 for Hydrilla CCC sends to lab

F1242-03 for Chem

6.1°C on arrival 2-23

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
N=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHHEE-011 (08/29/2005)

F1242 4D7

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-26	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 4, SEDIMENT		SAF No. RC-047	Air Quality	
Ice Chest No. AFS-04-008	Field Logbook No. EL-1596-7 A/B 1310 C	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	Poly Bag	Poly Bag									
No. of Container(s)	+2 SED 2-21-06	1	+0 SED 2-21-06									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									

Sample No.	Matrix *	Sample Date	Sample Time										
J112B6	OTHER SOLID	2-21-06	1400	X	X	X							-4

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-21-06 1900	EAS LOCKED STORAGE	2-21-06 1900
EAS LOCKED STORAGE	2-22-06 0830	RZ Steffler RZ Steffler	2-22-06 0830
RZ Steffler RZ Steffler	2-22-06 1600	Fed Ex	
Fed Ex		Brett Mulkey	2-23-06 1450
Brett Mulkey	2-23-06 1415		2-23-06 14:15

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1539-26 for Hyallela cell seals intact

F1242-04 for Chem

0.1 C on ground

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1242

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-45	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 7-SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-008	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	~~1~~ 3 SEG 2-21-06	1	~~1~~ 0 SEG 2-21-06									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									

Sample No.	Matrix *	Sample Date	Sample Time										
J116M6	OTHER SOLID	2-21-06	1445	X	X	X							-5

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	1700 2-21-06	EAS LOCKED STORAGE	1700 2-21-06
EAS LOCKED STORAGE	0830 2-22-06	RZ Stoffler RJ Stoffl	0830 2-22-06
RZ Stoffler RJ Stoffl	0830 2-22-06 / 1600	Fed Ex	
Fed Ex		Barrett Mulvey	1050 2-23-06
Barrett Mulvey	1415 2-23-06	M Beatchemer	2-23-06 14:15

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-27 for Hydrolab
F1242-05 for Chem

6.1°C on arrival 2-23

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
Li=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1242 687

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-46	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr8, SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. HFS-04-008	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS
POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage
COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	P/G	P/G								
No. of Container(s)	2 JEB 2-21-06	1	20 JEB 2-21-06								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J116M7	OTHER SOLID	2-21-06	1530	X	X	X							-6

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-21-06 1900	EAS LOCKED STORAGE	2-21-06 1900
EAS LOCKED STORAGE	2-22-06 0530	RR Steffler R.R. Steffler	2-22-06 0530
RR Steffler R.R. Steffler	2-22-06 WCH 1600	Fed Ex	
Fed Ex		Brett Mulkey	2-23-06 1050
Brett Mulkey	2-23-06 1415	M Bedelmann	2-23-06 14:15

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-22 for Hyalella COC seals intact

F1242-06 for chem

6.1°C on arrival 2-23-06

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1242 7997

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-100	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location ~~REF~~, SEDIMENT Cr #8 JEB 2-21-06		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-008	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	~~1~~ 2 JEB 2-21-06	1	~~1~~ 0 JEB 2-21-06									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									

Sample No.	Matrix *	Sample Date	Sample Time										
J11734	OTHER SOLID	2-21-06	1630	X	X	X							-7

CHAIN OF POSSESSION	Sign/Print Names
Relinquished By/Removed From JAMES BERNHARD Date/Time 1900 2-21-06	Received By/Stored In EAS LOCKED STORAGE Date/Time 1900 2-21-06
Relinquished By/Removed From EAS LOCKED STORAGE Date/Time 0830 2-22-06	Received By/Stored In RZ Steffler Date/Time 0830 2-22-06
Relinquished By/Removed From RZ Steffler Date/Time 1600 WCH 2-22-06	Received By/Stored In Fed Ex Date/Time
Relinquished By/Removed From Fed Ex Date/Time	Received By/Stored In Brett Mulkey Date/Time 1050 2-23-06
Relinquished By/Removed From Brett Mulkey Date/Time 1415 2-23-06	Received By/Stored In Date/Time 14:15 2-23-06
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-29 for Hydrolab COC seals intact.

F1242-07 for Chem

61°C on arrival

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

CH2MHILL
Analytical Services

Sample Receipt Record

Batch Number: F1242 Date received: 2-23-06

Client/Project CLR Consulting

VERIFICATION OF SAMPLE CONDITIONS (verify all items).* HD = Client Hand delivered Samples

Observation		YES	NO
Radiological Screening for AFCEE			X
Were custody seals intact and on the outside of the cooler?	HD		
If yes, Where? Front____ Rear____ Lt Side____ Rt Side____	HD		
Type of packing material: Ice Blue Ice Bubble wrap		X	X ROG HD
Was the Chain of Custody inside the cooler?	HD		
Was the Chain of Custody properly filled out?		X	
Were the sample containers in good condition?		X	
Containers supplied by ASL?			X
Any sample with < 1/2 holding time remaining? If so contact LPM		X	
Was there ice in the cooler? Enter temp.	~~10-0~~ ROG °C 6.1	X	X ROG HD
All VOCs free of air bubbles ?	N/A		

VERIFICATION OF SAMPLE PRESERVATION

Sample No	Nutrients pH <2	Metals pH <2	Volatiles pH <2	Cyanides pH >12	TOC pH <2	TOX pH <2	Other (specify)	N/A (soil/unpres)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

LOGIN AND pH VERIFICATIONS PERFORMED BY

[signature] Date/Time 2-23-06 14:15

Date/Time

Rev 11/05/2003-recptrcd.xls

VersionCo	LabName	SDG	FieldID	NativeID	QAQCTyp	LRType	Matrix	LabSampl	AnalysisM	ExtractionI	SampleDa	SampleTin	ReceiveDa	ExtractDat	ExtractTim	AnalysisDa	AnalysisTi	PercentSo	LabLotCtlN	CAS	ParamID	Analyte	Result
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	16:57	93.01		TOC	TOC	Total Orga	16600
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:04	3/2/2006	17:04	93.01	SB1-0302	7727-37-9	KN	Total Kjeld	1000
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:42	2/28/2006	15:42	93.01	SB1-0228	7664-41-7	NH3N	Ammonia-I	3.63
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:34	3/2/2006	15:34	93.01	SB1-0302	16887-00-4	CL	Chloride	0.661
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:34	3/2/2006	15:34	93.01	SB1-0302	16984-48-1	F	Fluoride	0.4
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:34	3/2/2006	15:34	93.01	SB1-0302	14797-55-1	NO3N	Nitrate-N	1.31
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:34	3/2/2006	15:34	93.01	SB1-0302	14797-65-1	NO2N	Nitrite-N	0.176
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:34	3/2/2006	15:34	93.01	SB1-0302	14808-79-1	SO4	Sulfate	0.925
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	ASTM D22	NONE	2/21/2006		2/23/2006			3/7/2006	14:50	93.01		MOISTURI	MOIST	Moisture	6.99
4.00EPAC	CHMC	F1242	J112B3	J112B3	N		SOIL	F124201	SW9045C	METHOD	2/21/2006		2/23/2006	2/28/2006	12:19	2/28/2006	12:19	93.01	SB1-0228	pH	PH	pH	7.05
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	17:12	92.97		TOC	TOC	Total Orga	7010
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:07	3/2/2006	17:07	92.97	SB1-0302	7727-37-9	KN	Total Kjeld	855
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:45	2/28/2006	15:45	92.97	SB1-0228	7664-41-7	NH3N	Ammonia-I	3.74
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:44	3/2/2006	15:44	92.97	SB1-0302	16887-00-4	CL	Chloride	0.725
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:44	3/2/2006	15:44	92.97	SB1-0302	16984-48-1	F	Fluoride	0.432
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:44	3/2/2006	15:44	92.97	SB1-0302	14797-55-1	NO3N	Nitrate-N	1.24
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:44	3/2/2006	15:44	92.97	SB1-0302	14797-65-1	NO2N	Nitrite-N	1.24
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:44	3/2/2006	15:44	92.97	SB1-0302	14808-79-1	SO4	Sulfate	1.24
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	ASTM D22	NONE	2/21/2006		2/23/2006			3/7/2006	14:50	92.97		MOISTURI	MOIST	Moisture	7.03
4.00EPAC	CHMC	F1242	J112B4	J112B4	N		SOIL	F124202	SW9045C	METHOD	2/21/2006		2/23/2006	2/28/2006	12:21	2/28/2006	12:21	92.97	SB1-0228	pH	PH	pH	7.01
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	17:22	95.72		TOC	TOC	Total Orga	1260
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:34	3/2/2006	17:34	95.72	SB1-0302	7727-37-9	KN	Total Kjeld	341
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:47	2/28/2006	15:47	95.72	SB1-0228	7664-41-7	NH3N	Ammonia-I	4.25
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:53	3/2/2006	15:53	95.72	SB1-0302	16887-00-4	CL	Chloride	0.125
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:53	3/2/2006	15:53	95.72	SB1-0302	16984-48-1	F	Fluoride	0.43
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:53	3/2/2006	15:53	95.72	SB1-0302	14797-55-1	NO3N	Nitrate-N	0.534
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:53	3/2/2006	15:53	95.72	SB1-0302	14797-65-1	NO2N	Nitrite-N	0.461
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	15:53	3/2/2006	15:53	95.72	SB1-0302	14808-79-1	SO4	Sulfate	1.51
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	ASTM D22	NONE	2/21/2006		2/23/2006			3/7/2006	14:50	95.72		MOISTURI	MOIST	Moisture	4.28
4.00EPAC	CHMC	F1242	J112B5	J112B5	N		SOIL	F124203	SW9045C	METHOD	2/21/2006		2/23/2006	2/28/2006	12:22	2/28/2006	12:22	95.72	SB1-0228	pH	PH	pH	8.74
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	17:31	96.95		TOC	TOC	Total Orga	3980
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:37	3/2/2006	17:37	96.95	SB1-0302	7727-37-9	KN	Total Kjeld	376
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:50	2/28/2006	15:50	96.95	SB1-0228	7664-41-7	NH3N	Ammonia-I	5.07
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:03	3/2/2006	16:03	96.95	SB1-0302	16887-00-4	CL	Chloride	0.176
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:03	3/2/2006	16:03	96.95	SB1-0302	16984-48-1	F	Fluoride	0.429
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:03	3/2/2006	16:03	96.95	SB1-0302	14797-55-1	NO3N	Nitrate-N	4.16
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:03	3/2/2006	16:03	96.95	SB1-0302	14797-65-1	NO2N	Nitrite-N	0.713
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:03	3/2/2006	16:03	96.95	SB1-0302	14808-79-1	SO4	Sulfate	3.19
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	ASTM D22	NONE	2/21/2006		2/23/2006			3/7/2006	14:50	96.95		MOISTURI	MOIST	Moisture	3.05
4.00EPAC	CHMC	F1242	J112B6	J112B6	N		SOIL	F124204	SW9045C	METHOD	2/21/2006		2/23/2006	2/28/2006	12:23	2/28/2006	12:23	96.95	SB1-0228	pH	PH	pH	7.9
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	17:41	96.83		TOC	TOC	Total Orga	6450
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:39	3/2/2006	17:39	96.83	SB1-0302	7727-37-9	KN	Total Kjeld	430
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:51	2/28/2006	15:51	96.83	SB1-0228	7664-41-7	NH3N	Ammonia-I	5.79
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:13	3/2/2006	16:13	96.83	SB1-0302	16887-00-4	CL	Chloride	1.5
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:13	3/2/2006	16:13	96.83	SB1-0302	16984-48-1	F	Fluoride	0.424
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:13	3/2/2006	16:13	96.83	SB1-0302	14797-55-1	NO3N	Nitrate-N	9.39
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:13	3/2/2006	16:13	96.83	SB1-0302	14797-65-1	NO2N	Nitrite-N	0.773
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	E300.0A	METHOD	2/21/2006		2/23/2006	3/2/2006	16:13	3/2/2006	16:13	96.83	SB1-0302	14808-79-1	SO4	Sulfate	4.36
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	ASTM D22	NONE	2/21/2006		2/23/2006			3/7/2006	14:50	96.83		MOISTURI	MOIST	Moisture	3.17
4.00EPAC	CHMC	F1242	J116M6	J116M6	N		SOIL	F124205	SW9045C	METHOD	2/21/2006		2/23/2006	2/28/2006	12:24	2/28/2006	12:24	96.83	SB1-0228	pH	PH	pH	6.6
4.00EPAC	CHMC	F1242	J116M7	J116M7	N		SOIL	F124206	ASTM E-7	NONE	2/21/2006		2/23/2006			3/6/2006	17:51	94.77		TOC	TOC	Total Orga	6020
4.00EPAC	CHMC	F1242	J116M7	J116M7	N		SOIL	F124206	E351.4	METHOD	2/21/2006		2/23/2006	3/2/2006	17:40	3/2/2006	17:40	94.77	SB1-0302	7727-37-9	KN	Total Kjeld	516
4.00EPAC	CHMC	F1242	J116M7	J116M7	N		SOIL	F124206	E350.3	METHOD	2/21/2006		2/23/2006	2/28/2006	15:53	2/28/2006	15:53	94.77	SB1-0228	7664-41-7	NH3N	Ammonia-I	5.18

ExpectedV	Units	Dilution	MDL	RL	LabQualifi	Surrogate	Comments	ParValUnc	Recovery	LowerCont	UpperCont	Basis	ConcQual	MDLAdjus	RLAdjuste	SampleDe	LeachMeth	LeachDate	LeachTime	LeachLot	AnalysisLo	CalRefID
	MG/KG	1	133	381		N						D	=	133	381	J112B3	NONE				SB1-0306	101405S1
	MG/KG	1	42.9	205		N						D	=	46.1	220	J112B3	NONE				030206KN	030206TKN
	MG/KG	1	1.03	3.84	B	N						D	J	1.1	4.13	J112B3	NONE				022806NH	022806NH3
	MG/KG	1	0.0452	0.372		N						D	=	0.0486	0.4	J112B3	NONE				030206Q1	300A-013006
	MG/KG	1	0.0404	0.372	U	N						D	U	0.0435	0.4	J112B3	NONE				030206Q1	300A-013006
	MG/KG	1	0.035	0.372		N						D	=	0.0376	0.4	J112B3	NONE				030206Q1	300A-013006
	MG/KG	1	0.0334	0.372	B	N						D	J	0.036	0.4	J112B3	NONE				030206Q1	300A-013006
	MG/KG	1	0.0601	0.372		N						D	=	0.0646	0.4	J112B3	NONE				030206Q1	300A-013006
	PERCENT	1	0	0		N						D	=	0	0	J112B3	NONE				030706MC	NONE
	PH UNITS	1	0	0		N						D	=	0	0	J112B3	NONE				022806PH	NONE
	MG/KG	1	74.1	212		N						D	=	74.1	212	J112B4	NONE				SB1-0306	101405S1
	MG/KG	1	39.5	189		N						D	=	42.5	203	J112B4	NONE				030206KN	030206TKN
	MG/KG	1	1.03	3.88	B	N						D	J	1.11	4.17	J112B4	NONE				022806NH	022806NH3
	MG/KG	1	0.0488	0.402		N						D	=	0.0524	0.432	J112B4	NONE				030206Q1	300A-013006
	MG/KG	1	0.0436	0.402	U	N						D	U	0.0469	0.432	J112B4	NONE				030206Q1	300A-013006
	MG/KG	1	0.0377	0.402		N						D	=	0.0405	0.432	J112B4	NONE				030206Q1	300A-013006
	MG/KG	1	0.0361	0.402		N						D	=	0.0388	0.432	J112B4	NONE				030206Q1	300A-013006
	MG/KG	1	0.0648	0.402		N						D	=	0.0696	0.432	J112B4	NONE				030206Q1	300A-013006
	PERCENT	1	0	0		N						D	=	0	0	J112B4	NONE				030706MC	NONE
	PH UNITS	1	0	0		N						D	=	0	0	J112B4	NONE				022806PH	NONE
	MG/KG	1	92.9	266		N						D	=	92.9	266	J112B5	NONE				SB1-0306	101405S1
	MG/KG	1	39.6	189		N						D	=	41.3	197	J112B5	NONE				030206KN	030206TKN
	MG/KG	1	1.06	3.96		N						D	=	1.1	4.12	J112B5	NONE				022806NH	022806NH3
	MG/KG	1	0.0501	0.412	B	N						D	J	0.0522	0.43	J112B5	NONE				030206Q1	300A-013006
	MG/KG	1	0.0448	0.412	U	N						D	U	0.0466	0.43	J112B5	NONE				030206Q1	300A-013006
	MG/KG	1	0.0387	0.412		N						D	=	0.0403	0.43	J112B5	NONE				030206Q1	300A-013006
	MG/KG	1	0.037	0.412		N						D	=	0.0386	0.43	J112B5	NONE				030206Q1	300A-013006
	MG/KG	1	0.0665	0.412		N						D	=	0.0693	0.43	J112B5	NONE				030206Q1	300A-013006
	PERCENT	1	0	0		N						D	=	0	0	J112B5	NONE				030706MC	NONE
	PH UNITS	1	0	0		N						D	=	0	0	J112B5	NONE				022806PH	NONE
	MG/KG	1	80.7	231		N						D	=	80.7	231	J112B6	NONE				SB1-0306	101405S1
	MG/KG	1	39.5	189		N						D	=	40.8	195	J112B6	NONE				030206KN	030206TKN
	MG/KG	1	1	3.76		N						D	=	1.03	3.88	J112B6	NONE				022806NH	022806NH3
	MG/KG	1	0.0506	0.416	B	N						D	J	0.0521	0.429	J112B6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0452	0.416	U	N						D	U	0.0466	0.429	J112B6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0391	0.416		N						D	=	0.0403	0.429	J112B6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0374	0.416		N						D	=	0.0385	0.429	J112B6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0671	0.416		N						D	=	0.0692	0.429	J112B6	NONE				030206Q1	300A-013006
	PERCENT	1	0	0		N						D	=	0	0	J112B6	NONE				030706MC	NONE
	PH UNITS	1	0	0		N						D	=	0	0	J112B6	NONE				022806PH	NONE
	MG/KG	1	99.8	285		N						D	=	99.8	285	J116M6	NONE				SB1-0306	101405S1
	MG/KG	1	40.5	193		N						D	=	41.8	199	J116M6	NONE				030206KN	030206TKN
	MG/KG	1	1.04	3.9		N						D	=	1.07	4.02	J116M6	NONE				022806NH	022806NH3
	MG/KG	1	0.05	0.411		N						D	=	0.0515	0.424	J116M6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0446	0.411	U	N						D	U	0.046	0.424	J116M6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0386	0.411		N						D	=	0.0398	0.424	J116M6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0369	0.411		N						D	=	0.0381	0.424	J116M6	NONE				030206Q1	300A-013006
	MG/KG	1	0.0663	0.411		N						D	=	0.0684	0.424	J116M6	NONE				030206Q1	300A-013006
	PERCENT	1	0	0		N						D	=	0	0	J116M6	NONE				030706MC	NONE
	PH UNITS	1	0	0		N						D	=	0	0	J116M6	NONE				022806PH	NONE
	MG/KG	1	109	311		N						D	=	109	311	J116M7	NONE				SB1-0306	101405S1
	MG/KG	1	42	200		N						D	=	44.2	211	J116M7	NONE				030206KN	030206TKN
	MG/KG	1	0.937	3.51		N						D	=	0.987	3.7	J116M7	NONE				022806NH	022806NH3

4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:22	3/2/2006	16:22	94.77	SB1-0302	16887-00-(	CL	Chloride	0.323
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:22	3/2/2006	16:22	94.77	SB1-0302	16984-48-(	F	Fluoride	0.474
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:22	3/2/2006	16:22	94.77	SB1-0302	14797-55-(	NO3N	Nitrate-N	1.28
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:22	3/2/2006	16:22	94.77	SB1-0302	14797-65-(	NO2N	Nitrite-N	0.423
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:22	3/2/2006	16:22	94.77	SB1-0302	14808-79-(	SO4	Sulfate	2.27
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	ASTM D22	NONE	2/21/2006	2/23/2006			3/7/2006	14:50	94.77		MOISTURI	MOIST	Moisture	5.23
4.00EPAC	CHMC	F1242	J116M7	J116M7	N	SOIL	F124206	SW9045C	METHOD	2/21/2006	2/23/2006	2/28/2006	12:25	2/28/2006	12:25	94.77	SB1-0228	pH	PH	pH	8.17
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	ASTM E-7	NONE	2/21/2006	2/23/2006			3/6/2006	18:00	94.99		TOC	TOC	Total Orga	7980
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E351.4	METHOD	2/21/2006	2/23/2006	3/2/2006	17:44	3/2/2006	17:44	94.99	SB1-0302	7727-37-9	KN	Total Kjeld	488
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E350.3	METHOD	2/21/2006	2/23/2006	2/28/2006	15:57	2/28/2006	15:57	94.99	SB1-0228	7664-41-7	NH3N	Ammonia-I	4.21
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:42	3/2/2006	16:42	94.99	SB1-0302	16887-00-(	CL	Chloride	0.328
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:42	3/2/2006	16:42	94.99	SB1-0302	16984-48-(	F	Fluoride	0.496
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:42	3/2/2006	16:42	94.99	SB1-0302	14797-55-(	NO3N	Nitrate-N	1.22
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:42	3/2/2006	16:42	94.99	SB1-0302	14797-65-(	NO2N	Nitrite-N	0.496
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	E300.0A	METHOD	2/21/2006	2/23/2006	3/2/2006	16:42	3/2/2006	16:42	94.99	SB1-0302	14808-79-(	SO4	Sulfate	2.25
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	ASTM D22	NONE	2/21/2006	2/23/2006			3/7/2006	14:50	94.99		MOISTURI	MOIST	Moisture	5.01
4.00EPAC	CHMC	F1242	J11734	J11734	N	SOIL	F124207	SW9045C	METHOD	2/21/2006	2/23/2006	2/28/2006	12:26	2/28/2006	12:26	94.99	SB1-0228	pH	PH	pH	8.09
4.00EPAC	CHMC	F1242	BS1S0228	BS1S0228	BS	SOIL	BS1S0228	E350.3	METHOD			2/28/2006	15:26	2/28/2006	15:26	100	SB1-0228	7664-41-7	NH3N	Ammonia-I	18
4.00EPAC	CHMC	F1242	BS1S0302	BS1S0302	BS	SOIL	BS1S0302	E351.4	METHOD			3/2/2006	15:49	3/2/2006	15:49	100	SB1-0302	7727-37-9	KN	Total Kjeld	785
4.00EPAC	CHMC	F1242	BS1S0302	BS1S0302	BS	SOIL	BS1S0302	E300.0A	METHOD			3/2/2006	13:47	3/2/2006	13:47	100	SB1-0302	16887-00-(	CL	Chloride	50.6
4.00EPAC	CHMC	F1242	BS1S0302	BS1S0302	BS	SOIL	BS1S0302	E300.0A	METHOD			3/2/2006	13:47	3/2/2006	13:47	100	SB1-0302	16984-48-(	F	Fluoride	54.7
4.00EPAC	CHMC	F1242	BS1S0302	BS1S0302	BS	SOIL	BS1S0302	E300.0A	METHOD			3/2/2006	13:47	3/2/2006	13:47	100	SB1-0302	14808-79-(	SO4	Sulfate	53.1
4.00EPAC	CHMC	F1242	BS1S0306	BS1S0306	BS	SOIL	BS1S0306	ASTM E-7	NONE					3/6/2006	10:25	100		TOC	TOC	Total Orga	9140
4.00EPAC	CHMC	F1242	BS2S0302	BS2S0302	BS	SOIL	BS2S0302	E300.0A	METHOD			3/2/2006	14:07	3/2/2006	14:07	100	SB1-0302	14797-65-(	NO2N	Nitrite-N	11.5
4.00EPAC	CHMC	F1242	BS3S0302	BS3S0302	BS	SOIL	BS3S0302	E300.0A	METHOD			3/2/2006	14:16	3/2/2006	14:16	100	SB1-0302	14797-55-(	NO3N	Nitrate-N	78.6
4.00EPAC	CHMC	F1242	SB1-0228	SB1-0228	LB	SOIL	SB1-0228	E350.3	METHOD			2/28/2006	15:41	2/28/2006	15:41	100	SB1-0228	7664-41-7	NH3N	Ammonia-I	1.68
4.00EPAC	CHMC	F1242	SB1-0228	SB1-0228	LB	SOIL	SB1-0228	SW9045C	METHOD			2/28/2006	11:57	2/28/2006	11:57	100	SB1-0228	pH	PH	pH	6.62
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E351.4	METHOD			3/2/2006	15:59	3/2/2006	15:59	100	SB1-0302	7727-37-9	KN	Total Kjeld	62
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E300.0A	METHOD			3/2/2006	14:26	3/2/2006	14:26	100	SB1-0302	16887-00-(	CL	Chloride	0.2
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E300.0A	METHOD			3/2/2006	14:26	3/2/2006	14:26	100	SB1-0302	16984-48-(	F	Fluoride	1
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E300.0A	METHOD			3/2/2006	14:26	3/2/2006	14:26	100	SB1-0302	14797-55-(	NO3N	Nitrate-N	1
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E300.0A	METHOD			3/2/2006	14:26	3/2/2006	14:26	100	SB1-0302	14797-65-(	NO2N	Nitrite-N	1
4.00EPAC	CHMC	F1242	SB1-0302	SB1-0302	LB	SOIL	SB1-0302	E300.0A	METHOD			3/2/2006	14:26	3/2/2006	14:26	100	SB1-0302	14808-79-(	SO4	Sulfate	1
4.00EPAC	CHMC	F1242	SB1-0306	SB1-0306	LB	SOIL	SB1-0306	ASTM E-7	NONE					3/6/2006	10:36	100		TOC	TOC	Total Orga	100

	MG/KG	1	0.0547	0.451 B	N				D	J	0.0576	0.474	J116M7	NONE		030206Q1	300A-013006
	MG/KG	1	0.0489	0.451 U	N				D	U	0.0515	0.474	J116M7	NONE		030206Q1	300A-013006
	MG/KG	1	0.0423	0.451	N				D	=	0.0445	0.474	J116M7	NONE		030206Q1	300A-013006
	MG/KG	1	0.0405	0.451 B	N				D	J	0.0426	0.474	J116M7	NONE		030206Q1	300A-013006
	MG/KG	1	0.0727	0.451	N				D	=	0.0765	0.474	J116M7	NONE		030206Q1	300A-013006
	PERCENT	1	0	0	N				D	=	0	0	J116M7	NONE		030706MC	NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116M7	NONE		022806PH	NONE
	MG/KG	1	121	347	N				D	=	121	347	J11734	NONE		SB1-0306	101405S1
	MG/KG	1	41.8	200	N				D	=	44	210	J11734	NONE		030206KN	030206TKN
	MG/KG	1	1.08	4.03 B	N				D	J	1.13	4.24	J11734	NONE		022806NH	022806NH3
	MG/KG	1	0.0573	0.471 B	N				D	J	0.0603	0.496	J11734	NONE		030206Q1	300A-013006
	MG/KG	1	0.0512	0.471 U	N				D	U	0.0539	0.496	J11734	NONE		030206Q1	300A-013006
	MG/KG	1	0.0443	0.471	N				D	=	0.0466	0.496	J11734	NONE		030206Q1	300A-013006
	MG/KG	1	0.0423	0.471	N				D	=	0.0446	0.496	J11734	NONE		030206Q1	300A-013006
	MG/KG	1	0.076	0.471	N				D	=	0.08	0.496	J11734	NONE		030206Q1	300A-013006
	PERCENT	1	0	0	N				D	=	0	0	J11734	NONE		030706MC	NONE
	PH UNITS	1	0	0	N				D	=	0	0	J11734	NONE		022806PH	NONE
20	MG/KG	1	0.534	2	N	89.9	80	120	D	=	0.534	2		NONE		022806NH	022806NH3
680	MG/KG	1	21	100	N	115.4	75	125	D	=	21	100		NONE		030206KN	030206TKN
50	MG/KG	1	0.121	1	N	101.1	70	130	D	=	0.121	1		NONE		030206Q1	300A-013006
50	MG/KG	1	0.109	1	N	109.3	70	130	D	=	0.109	1		NONE		030206Q1	300A-013006
50	MG/KG	1	0.161	1	N	106.2	70	130	D	=	0.161	1		NONE		030206Q1	300A-013006
8840	MG/KG	1	54.8	157	N	103.3	75	125	D	=	54.8	157		NONE		SB1-0306	101405S1
11.3	MG/KG	1	0.0898	1	N	101.5	70	130	D	=	0.0898	1		NONE		030206Q1	300A-013006
71.9	MG/KG	1	0.0939	1	N	109.2	70	130	D	=	0.0939	1		NONE		030206Q1	300A-013006
0	MG/KG	1	0.534	2 B	N				D	J	0.534	2		NONE		022806NH	022806NH3
0	PH UNITS	1	0	0	N				D	=	0	0		NONE		022806PH	NONE
0	MG/KG	1	21	100 B	N				D	J	21	100		NONE		030206KN	030206TKN
0	MG/KG	1	0.121	1 B	N				D	J	0.121	1		NONE		030206Q1	300A-013006
0	MG/KG	1	0.109	1 U	N				D	U	0.109	1		NONE		030206Q1	300A-013006
0	MG/KG	1	0.0939	1 U	N				D	U	0.0939	1		NONE		030206Q1	300A-013006
0	MG/KG	1	0.0898	1 U	N				D	U	0.0898	1		NONE		030206Q1	300A-013006
0	MG/KG	1	0.161	1 U	N				D	U	0.161	1		NONE		030206Q1	300A-013006
0	MG/KG	1	35	100 U	N				D	U	35	100		NONE		SB1-0306	101405S1