2751- SCU-021
0044231

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

February 21, 1992

FEB 1992
RECEIVED
OSM DMO

Mr. Ted Washington
MSIN: T6-08
Office of Sample Management
Westinghouse Hanford Company
2355 Stevens Drive
Richland, WA 99352

Reference No. 32359-04

Dear Mr. Washington:

Enclosed are the corrected Forms 1 through 12 for the Site Wide Soil Project SDG 2751 to include sodium which was inadvertently omitted from the original data package. Per your request, the Form 1s were faxed to Andrea Prignano February 20, 1991.

The enclosed report contains the corrected Forms 1 through 12 and are numbered appropriately to replace the incorrect forms in the original data package. If you have any question about the data, please give me a call.

Sincerely,

Stacie O'Flaherty
Reporting Supervisor

enclosures

JUN 1996
RECEIVED
EDMC

ii
~~1a~~ M.H.
12-29-95

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

NARRATIVE

DATE: February 14, 1992
REFERENCE NO.: 32359-04, SDG 2751

CLP METALS

The second prep blank and LCS for 01/08/92 were found to be missing from the original data package sent February 11, 1992. The analytical results for these two QC samples are reported in the data package addendum enclosed as "Volume 1 of 2 Addendum".

The quality control results were generally acceptable. Se is detected in the second prep blank over the CRDL, however, there is no Se detected in the samples and the first prep blank is below IDL for Se. LCS recoveries and calibration data are within required windows.

SDT

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

Le iV
M.H.
12-29-95

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

NARRATIVE

DATE: February 11, 1992
REFERENCE NO.: 32359-04, SDG 2751

CLP METALS

The samples were analyzed according to the 2/88 CLP Inorganics Statement of Work and EPA Method 6010. Dilutions were required for GFAA analysis due to the level of interferents present in the soils. Lead data is reported from the ICP data due to high Pb levels. Due to the low amount of sample received, several samples had less than 1 gram digested for ICP and GFAA analysis and no sample was left for 2751-27 GFAA analysis. There were significant levels of several analytes detected in the samples.

The quality control results were generally acceptable. Matrix recovery for several analytes were outside criteria due to matrix problems. Duplicate values for several metals are out of criteria due to the soil matrix. Ti was not spiked into the LCS's or MS's due to laboratory. The Ti results from the post-digestion spike are available and are within limits for 2751-16A and low for 2751-8A. All other QC data for Ti are good. Hg was digested within 28 days of laboratory sample receipt, however, the samples were sent to S-Cubed after 28 days from sampling and are therefore outside holding time if counted from date of sampling.

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

M.H. 12-29-95

SAMPLE SUMMARY

S-Cubed Reference No. 32359-04, SDG No. 2751, Project Name: Site Wide Soil

S-Cubed Number	Sample ID ID	Date Received	Sample Type	Analysis A	B	C	D	E	F	G	H	I
B01 CK9	2751-1	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL0	2751-2	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL1	2751-3	12/12/91	Soil	1	1	1	1	1	1	3	1	1
B01 CL2	2751-4	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL3	2751-5	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL4	2751-6	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL5	2751-7	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL6	2751-8	12/12/91	Soil	3	3	3	3	3	1	1	3	3
B01 CL7	2751-9	12/12/91	Soil	1	1	1	1	1	3	1	1	1
B01 CL8	2751-10	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CL9	2751-11	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM0	2751-12	12/12/91	Soil	1	1	1	1	1	3	1	1	1
B01 CM1	2751-13	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM2	2751-14	12/12/91	Soil	1	1	1	1	1	1	1	3	1
B01 CM3	2751-15	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM4	2751-16	12/12/91	Soil	3	3	3	3	3	1	1	1	3
B01 CM5	2751-17	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM6	2751-18	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM7	2751-19	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM8	2751-20	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CM9	2751-21	12/12/91	Soil	1	1	1	1	1	1	3	1	1
B01 CN0	2751-22	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN1	2751-23	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN2	2751-24	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN3	2751-25	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN4	2751-26	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN5	2751-27	12/12/91	Soil	1	1	1	1	1	1	1	1	1
B01 CN6	2751-28	12/12/91	Soil	1	1	1	1	1	1	1	1	1

Analysis Key:

A=Ti
B=Zr
C=OCPCLP
D=TOC
E=ICPCLP-M
F=FURNCLP
G=HGCLP
H=ANIONS
I=N-NH3

Zc VI
M.H.
12-29-95

Westinghouse Hanford Company	CHAIN OF CUSTODY

Custody Form Initiator Scott W. Petersen

Company Contact Scott W. Petersen Telephone (509)376-1273

Project Designation/Sampling Locations Site-wide Background grain size Collection Date 11/14/91

Ice Chest No. N/A Field Logbook No. N/A

Bill of Lading/Airbill No. Offsite Property No.

Method of Shipment

Shipped to

Possible Sample Hazards/Remarks None

Sample Identification

B01CK9	B01CM0	B01CN1
B01CL0	B01CM1	B01CN2
B01CL1	B01CM2	B01CN3
B01CL2	B01CM3	B01CN4
B01CL3	B01CM4	B01CN5
B01CL4	B01CM5	B01CN6
B01CL5	B01CM6	
B01CL6	B01CM7	
B01CL7	B01CM8	
B01CL8	B01CM9	
B01CL9	B01CN0	

☐ Field Transfer of Custody — CHAIN OF POSSESSION — (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
Scott Petersen	Dixon	12/12/91 1pm
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90)

1k VII M.H. 12-29-95

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

PART I: FIELD SECTION

Collector Scott W. Petersen Date Sampled 11/14/91 Time _____ hours

Company Contact Scott W. Petersen Telephone (509) 376-1273

Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested
B01CK9	One 7-dram plastic vial	soil	See attached tables
B01CL0	"	soil	
B01CL1	"	soil	
B01CL2	"	soil	
B01CL3	"	soil	
B01CL4	"	soil	
B01CL5	"	soil	
B01CL6	"	soil	
B01CL7	"	soil	
B01CL8	"	soil	
B01CL9	"	soil	
B01CM0	"	soil	
B01CM1	"	soil	
B01CM2	"	soil	
B01CM3	"	soil	
B01CM4	"	soil	
B01CM5	"	soil	
B01CM6	"	soil	
B01CM7	"	soil	
B01CM8	"	soil	

Field Information** N/A

Special Handling and/or Storage N/A

Possible Sample Hazards N/A

PART II: LABORATORY SECTION

Received by _____ Title _____ Date _____

Analysis Required _____

*Indicate whether sample is soil, sludge, water, etc.

**Use back of page for additional information relative to sample location.

A-6000-406 (05/90)

~~1e~~ viii
M.H.
12-29-95

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

PART I: FIELD SECTION

Collector Scott W. Petersen Date Sampled 11/14/91 Time _____ hours

Company Contact Scott W. Petersen Telephone (509) 376-1273

Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested
B01CM9	One 7-dram plastic vial	soil	See attached tables
B01CN0	"	soil	
B01CN1	"	soil	
B01CN2	"	soil	
B01CN3	"	soil	
B01CN4	"	soil	
B01CN5	"	soil	
B01CN6	"	soil	

Field Information** N/A

Special Handling and/or Storage N/A

Possible Sample Hazards N/A

PART II: LABORATORY SECTION

Received by _____ Title _____ Date _____

Analysis Required _____

*Indicate whether sample is soil, sludge, water, etc.

**Use back of page for additional information relative to sample location.

A-6000-406 (05/90)

IX

M.H. 12-29-95

Next day delivery

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
WHC		W92-0-0123 #13

PART I – TO BE COMPLETED BY ORIGINATOR

Department: Reg Assess., Permitting | Section: RCRA Closures | Unit:

The following items are to be shipped from: ☒ Contractor ☐ Vendor

Routing: Emery ☒ Contractor ☐ Vendor

Shipped to: S-cubed, 3398 Carmel Mt. Rd., San Diego, CA

Off-site Custodian:

Full Title:

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1 wt = 3#	#1 cardboard box, # SB-10, containing plastic vials of soil packed in paper. Sample #'s B01CK9, B01CL0-9, B01CM0-9, B01CN0-6.	

☐ Classified ☒ Unclassified ☐ Shipped Under DOE Contract ☐ Shipped Under Contractor's Use Permit Contract

Necessity for the Off-Site Use of this Property: Program not available on-site

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release: [signature]	RM Survey No: 710771	Date: 12/11/91
Location of Property (Area & Bldg.): Background grain size	Contact: S.W. Petersen	Phone: 376-4186
Date Ready for Shipment:	Cost Code to be Charged: PK1BB 8171	Approximate Date This Property will be Returned: N/A
Originated By: S.W. Petersen [signature]	Date: 12/11/91	Authorized By: [signature] Date: 12/11/91
Signature and Name of Property Control	Custodian Date	Property Management Approval [signature] Date: 12/11/91

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Date: 12/11/91				

DISTRIBUTION

By Originator	Shipping Operation – Sign all Copies and Forward to:
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Yellow – Retain Green – Property Control Custodian (Issuing Office) Pink – Originator

54-3000-479 (09/89)

X M.H. 12-29-95

FORM OF PAYMENT

Check ☐ Cash ☐ | FCCOD ☐

Bill to Shipper ☒ Bill to Consignee ☐ Third Party Billing ☐

Shipper's Account Number: E A502R1585

EMERY WORLDWIDE — A CF Company

SERVICES

UNITED STATES / CANADA: ☐ Same Day ☐ ☒ AM ☐ PM ☐ Second Day ☐ Saturday Delivery

INTERNATIONAL: Express ☐ Preferred ☐ Standard ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

PULL FOR SHPT. NO. TAB

Date	Origin	Shipment Number
12-11-91	PSC	250986465 4

From:
WESTINGHOUSE SHIPPING DEPT (509) 376-6665
US DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD
BLDG 1163
2355 STEVENS DRIVE
RICHLAND WA Canada ☐

To: 2751
S-CUBED
3398 CARMEL MT. RD.
SAN DIEGO CA Canada ☐ Hold for Pickup ☐

Tariff Dest. | Gateway

Check to Follow $

EMERY WORLDWIDE will accept Consignee's check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

Customer's Reference Numbers: W81171 PK1B8 W92-0-0123#13 | 99352

Consignee's Account Number: E

92121-1095

Description	Pcs.	L	W	H	Total Pieces	Total Weight (in Lbs)
1 CARDBOARD BOX SB-10 SOIL SAMPLES W92-0-0123#13	1	10	10	6	1	3

FOR INFORMATION OR RATES CALL 1-800 44 EMERY (1-800-443-6379)

Declared Value $

250986465 4

Remarks: OVERNIGHT DELIVERY

Shipper's Signature X

Zip Ship ☐ For shipments within the 50 United States Shipper has the option to check this box and, by checking, agrees that the Zip Ship conditions, described in the area to the right, apply.

Mark if Emery Packaging is used: Urgent Letter 9X12 ☐ Urgent Pack 12X15 ☐

International Shipments: Free Domicile ☐ Commodity Code

Third Party Account Number mandatory for Third Party Billing: E

Third Party Account Number

International Customs Value | International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance at Origin: ☐ OCIAO $

Terms and Conditions on Back

SAN-A

CONSIGNEE — PACKAGE COPY — 4

XI 1X M.H. 12-29-95

MAXWELL
S-CUBED Division

Lot No. 2751 1/2

Sample Log-In Sheet

DC No. ____-____-____

Date Received 12/12/91 Date Sampled 11/14/91 Client Code WHC

Time Received 1pm

Received by (Sig.) T. Dufor

Airbill No. 2509864 65-4

Charge No. 32359-PM

Custody Seals Present/Intact (Y) N

Chain of Custody Present (Y) N

Client Forms Present (Y) N

Reporting Format: Summ. CLP Summ. Full CLP Disk

Turnaround Req'd: 45d 30d 21d 14d 48hr Other ____

Quality Control Req'd: Level 1(Low) 2(CLP) 3(RCRA) 4(Other)

Case No./Proj. Code Sitewide SDG No. 2751

S-Cubed No.	Sample Identification	Samp. Type	No. Cont.	Samp. Cond.	Samp. Stor.	A	B	C	D	E	F	G	H	All Info Agree	Notes
2751-1	B01 CK9	S	1/1	OK	WA	X	X	X	X	X	X	X	X		
2	CL0														
3	CL1														
4	CL2														
5	CL3														
6	CL4														I
7	CL5														H AIK
8	CL6														G SI
9	CL7														F N-NH3
10	CL8														E ANIONS
11	CL9														D HGCLP
12	CM0														C FURNCLP
13	CM1														B ICPCLP EXTRA
14	CM2														A ICPCLP

Container Types

Water ~~Aprx~~

Soil Aprox 5 grams ea

S = Soil/Sediment/Sludge
W = Aqueous
NAL = Non-Aqueous Liquid
NSS = Non-Soil Solid

Water MS, MSD ____

Soil MS, MSD ____

SDG Complete (Y) N

Review Jul 2/12

SC-03, Rev 7/91

Xi 12-29-95 M.H.

MAXWELL
S-CUBED Division

Lot No. 2751 2/2

Sample Log-In Sheet

DC No. ___-___-___

Date Received 12/12/91 Date Sampled 11/14/91

Client Code WHC

Time Received 1pm

Received by (Sig.) [illegible]

Airbill No. 2509864 65-4

Charge No. 32359-04

Custody Seals Present/Intact (Y) N

Chain of Custody Present (Y) N

Client Forms Present (Y) N

Reporting Format: Summ. CLP Summ. Full CLP Disk

Turnaround Req'd: 45d 30d 21d 14d 48hr Other ___

Quality Control Req'd: Level 1(Low) 2(CLP) 3(RCRA) 4(Other)

Case No./Proj. Code SDG No.

S-Cubed No.	Sample Identification	Samp. Type	No. Cont.	Samp. Cond.	Samp. Stor.	A	B	C	D	E	F	G	H		All Info Agree	Notes
2751-15	B01 CM3	S	0/1	DK	WG	X	X	X	X	X	X	X	X			
16	CM4															
17	CM5															
18	CM6															
19	CM7															
20	CM8															
21	CM9															
22	CN0															
23	CN1															
24	CN2															
25	CN3															
26	CN4															
27	CN5															
28	CN6															

Container Types

Water ___

Soil Approx 5 grams

S = Soil/Sediment/Sludge
W = Aqueous
NAL = Non-Aqueous Liquid
NSS = Non-Soil Solid

Water MS, MSD ___

Soil MS, MSD ___

SDG Complete Y N

Review 10/12/12

SC-03, Rev 7/91

xiii
12-29-95

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-1

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-1

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	5.5		*	F
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	9130			P
7440-47-3	Chromium	17.5		N*	P
7440-48-4	Cobalt	8.2			P
7440-50-8	Copper	32.8			P
7439-89-6	Iron	18800		*	P
7439-92-1	Lead	13.6		*	P
7439-95-4	Magnesium	5840		*	P
7439-96-5	Manganese	382		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	15.7			P
7440-09-7	Potassium	2260			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	288	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	34.0		*	P
7440-66-6	Zinc	48.4		*	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:

B01CK9

FORM I - IN

7/88

004

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-1

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-1

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	909			P
7440-67-7	Zirconium	10.0	U		P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CK9

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-2

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-2

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14100		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	7.9		*	F
7440-39-3	Barium	193			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	12000			P
7440-47-3	Chromium	22.8		N*	P
7440-48-4	Cobalt	12.8			P
7440-50-8	Copper	39.6			P
7439-89-6	Iron	27100		*	P
7439-92-1	Lead	22.2		*	P
7439-95-4	Magnesium	7880		*	P
7439-96-5	Manganese	590		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	20.9			P
7440-09-7	Potassium	3380			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	370	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	47.3		*	P
7440-66-6	Zinc	68.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL0

FORM I - IN

7/88

006

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-2

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-2

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1200			P
7440-67-7	Zirconium	14.3			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL0

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-3

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-3

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11800		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	7.2		*	F
7440-39-3	Barium	159			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11400			P
7440-47-3	Chromium	19.1		N*	P
7440-48-4	Cobalt	11.0			P
7440-50-8	Copper	39.2			P
7439-89-6	Iron	23000		*	P
7439-92-1	Lead	21.5		*	P
7439-95-4	Magnesium	7010		*	P
7439-96-5	Manganese	495		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	19.6			P
7440-09-7	Potassium	2740			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	336	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	38.3		*	P
7440-66-6	Zinc	60.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL1

FORM I - IN

7/88

008

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-3

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-3

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	925			P
7440-67-7	Zirconium	12.5			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL1

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-4

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-4

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	6.6		*	F
7440-39-3	Barium	97.5			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	17.8		N*	P
7440-48-4	Cobalt	9.1			P
7440-50-8	Copper	41.3			P
7439-89-6	Iron	20600		*	P
7439-92-1	Lead	19.4		*	P
7439-95-4	Magnesium	5860		*	P
7439-96-5	Manganese	379		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	2000			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	334	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	35.6		*	P
7440-66-6	Zinc	50.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL2

FORM I - IN

7/88

010

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-4

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-4

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	818			P
7440-67-7	Zirconium	13.6			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL2

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-5

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-5

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	9.9		*	F
7440-39-3	Barium	94.4			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	18.7		N*	P
7440-48-4	Cobalt	10.3			P
7440-50-8	Copper	79.8			P
7439-89-6	Iron	24200		*	P
7439-92-1	Lead	34.2		*	P
7439-95-4	Magnesium	6580		*	P
7439-96-5	Manganese	435		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	17.8			P
7440-09-7	Potassium	2020			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	418	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	41.6		*	P
7440-66-6	Zinc	64.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL3

FORM I - IN

7/88

012

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-5

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-5

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	874			P
7440-67-7	Zirconium	17.2			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL3

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-6

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-6

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	7.5		*	F
7440-39-3	Barium	119			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	17.3		N*	P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	24.1			P
7439-89-6	Iron	21400		*	P
7439-92-1	Lead	15.0		*	P
7439-95-4	Magnesium	6350		*	P
7439-96-5	Manganese	437		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	17.1			P
7440-09-7	Potassium	2220			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	322	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	35.1		*	P
7440-66-6	Zinc	52.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL4

FORM I - IN

7/88

014

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-6

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-6

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	766			P
7440-67-7	Zirconium	11.9			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL4

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-7

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-7

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4190		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	59.8			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5670			P
7440-47-3	Chromium	4.5		N*	P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	15.2			P
7439-89-6	Iron	24000		*	P
7439-92-1	Lead	3.5		*	P
7439-95-4	Magnesium	2860		*	P
7439-96-5	Manganese	282		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	6.8			P
7440-09-7	Potassium	817			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	220	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	61.3		*	P
7440-66-6	Zinc	39.5		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL5

FORM I - IN

7/88

016

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-7

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-7

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	2000			P
7440-67-7	Zirconium	25.7			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL5

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-8

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-8

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5340		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	1.3	B	*	F
7440-39-3	Barium	60.7			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7700			P
7440-47-3	Chromium	3.3		N*	P
7440-48-4	Cobalt	14.8			P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	32800		*	P
7439-92-1	Lead	8.2		*	P
7439-95-4	Magnesium	3550		*	P
7439-96-5	Manganese	364		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	7.0			P
7440-09-7	Potassium	732			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	352	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	97.6		*	P
7440-66-6	Zinc	53.7		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:

B01CL6

FORM I - IN

7/88

018

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-8

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-8

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3080			P
7440-67-7	Zirconium	36.5			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL6

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-9

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-9

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4130		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	1.8	B	*	F
7440-39-3	Barium	57.0			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	6270			P
7440-47-3	Chromium	2.3		N*	P
7440-48-4	Cobalt	13.5			P
7440-50-8	Copper	16.5			P
7439-89-6	Iron	28300		*	P
7439-92-1	Lead	5.0		*	P
7439-95-4	Magnesium	2730		*	P
7439-96-5	Manganese	361		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	6.2			P
7440-09-7	Potassium	566			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.4		N	P
7440-23-5	Sodium	245	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	91.8		*	P
7440-66-6	Zinc	43.2		*	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CL7

FORM I - IN

7/88

020

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-9

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-9

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3220			P
7440-67-7	Zirconium	32.5			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CL7

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-10

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-10

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6030		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	1.1	B	*	F
7440-39-3	Barium	118			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7130			P
7440-47-3	Chromium	5.4		N*	P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	18.9			P
7439-89-6	Iron	34900		*	P
7439-92-1	Lead	7.3		*	P
7439-95-4	Magnesium	3560		*	P
7439-96-5	Manganese	502		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	880			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.2		N	P
7440-23-5	Sodium	278	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	122		*	P
7440-66-6	Zinc	52.8		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL8

FORM I - IN

7/88

022

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-10

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-10

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3600			P
7440-67-7	Zirconium	34.4			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL8

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-11

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-11

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4620		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	67.0			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7240			P
7440-47-3	Chromium	2.8		N*	P
7440-48-4	Cobalt	13.8			P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	30400		*	P
7439-92-1	Lead	7.4		*	P
7439-95-4	Magnesium	2850		*	P
7439-96-5	Manganese	384		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	5.6			P
7440-09-7	Potassium	554			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.2		N	P
7440-23-5	Sodium	292	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	95.7		*	P
7440-66-6	Zinc	47.7		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL9

FORM I - IN

7/88

024

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-11

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-11

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3240			P
7440-67-7	Zirconium	32.1			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL9

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-12

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-12

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7060		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	2.5	B	*	F
7440-39-3	Barium	294			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7720			P
7440-47-3	Chromium	6.5		N*	P
7440-48-4	Cobalt	15.4			P
7440-50-8	Copper	20.9			P
7439-89-6	Iron	28300		*	P
7439-92-1	Lead	11.0		*	P
7439-95-4	Magnesium	4440		*	P
7439-96-5	Manganese	1280		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	926			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	560			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	67.1		*	P
7440-66-6	Zinc	52.4		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM0

FORM I - IN

7/88

026

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-12

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-12

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1800			P
7440-67-7	Zirconium	30.2			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM0

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-13

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-13

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	6.9		*	F
7440-39-3	Barium	146			P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10000			P
7440-47-3	Chromium	12.6		N*	P
7440-48-4	Cobalt	13.6			P
7440-50-8	Copper	23.8			P
7439-89-6	Iron	33900		*	P
7439-92-1	Lead	15.7		*	P
7439-95-4	Magnesium	5930		*	P
7439-96-5	Manganese	665		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	13.5			P
7440-09-7	Potassium	1770			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	752			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	76.2		*	P
7440-66-6	Zinc	62.3		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:

B01CM1

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-13

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-13

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1600			P
7440-67-7	Zirconium	31.9			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM1

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-14

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-14

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6640		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	4.2		*	F
7440-39-3	Barium	119			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4490			P
7440-47-3	Chromium	9.4		N*	P
7440-48-4	Cobalt	7.5			P
7440-50-8	Copper	19.0			P
7439-89-6	Iron	14800		*	P
7439-92-1	Lead	6.9		*	P
7439-95-4	Magnesium	3340		*	P
7439-96-5	Manganese	296		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.5			P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	356	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	32.5		*	P
7440-66-6	Zinc	33.3		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM2

FORM I - IN

7/88

030

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-14

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-14

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	776			P
7440-67-7	Zirconium	14.6			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM2

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-15

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-15

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10300		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	256			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10000			P
7440-47-3	Chromium	15.7		N*	P
7440-48-4	Cobalt	11.0			P
7440-50-8	Copper	33.8			P
7439-89-6	Iron	23200		*	P
7439-92-1	Lead	13.6		*	P
7439-95-4	Magnesium	5780		*	P
7439-96-5	Manganese	444		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	2120			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	535			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	47.5		*	P
7440-66-6	Zinc	52.4		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM3

FORM I - IN

7/88

032

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-15

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-15

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	998			P
7440-67-7	Zirconium	22.7			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM3

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-16

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-16

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6630		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	3.5		*	F
7440-39-3	Barium	127			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	7.6		N*	P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	18.7			P
7439-89-6	Iron	22800		*	P
7439-92-1	Lead	6.9		*	P
7439-95-4	Magnesium	3950		*	P
7439-96-5	Manganese	367		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.8			P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	524			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	51.1		*	P
7440-66-6	Zinc	45.0		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM4

FORM I - IN

7/88

034

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-16

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-16

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1390			P
7440-67-7	Zirconium	25.2			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM4

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-17

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-17

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.98	B	*	F
7440-39-3	Barium	214			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7810			P
7440-47-3	Chromium	15.1		N*	P
7440-48-4	Cobalt	10.4			P
7440-50-8	Copper	33.1			P
7439-89-6	Iron	22000		*	P
7439-92-1	Lead	11.9		*	P
7439-95-4	Magnesium	5090		*	P
7439-96-5	Manganese	459		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	12.4			P
7440-09-7	Potassium	2060			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	501			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	48.7		*	P
7440-66-6	Zinc	49.5		*	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CM5

FORM I - IN

7/88

036

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-17

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-17

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1100			P
7440-67-7	Zirconium	21.6			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CM5

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-18

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-18

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2240		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	33.7			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4420			P
7440-47-3	Chromium	3.0		N*	P
7440-48-4	Cobalt	19.2			P
7440-50-8	Copper	21.3			P
7439-89-6	Iron	33500		*	P
7439-92-1	Lead	6.4		*	P
7439-95-4	Magnesium	541		*	P
7439-96-5	Manganese	263		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	952			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	2.0		N	P
7440-23-5	Sodium	202	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	161		*	P
7440-66-6	Zinc	53.8		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:

B01CM6

FORM I - IN

7/88

038

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-18

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-18

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7020			P
7440-67-7	Zirconium	34.4			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CM6

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-19

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-19

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2460		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	37.0			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4470			P
7440-47-3	Chromium	2.5		N*	P
7440-48-4	Cobalt	14.7			P
7440-50-8	Copper	45.4			P
7439-89-6	Iron	25800		*	P
7439-92-1	Lead	8.6		*	P
7439-95-4	Magnesium	500		*	P
7439-96-5	Manganese	202		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1160			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.2		N	P
7440-23-5	Sodium	290	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	124		*	P
7440-66-6	Zinc	43.5		*	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CM7

FORM I - IN

7/88

040

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-19

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-19

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	5540			P
7440-67-7	Zirconium	30.8			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CM7

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-20

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-20

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3140		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	40.5			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4760			P
7440-47-3	Chromium	3.8		N*	P
7440-48-4	Cobalt	19.2			P
7440-50-8	Copper	51.2			P
7439-89-6	Iron	32000		*	P
7439-92-1	Lead	27.1		*	P
7439-95-4	Magnesium	612		*	P
7439-96-5	Manganese	260		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1350			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.4		N	P
7440-23-5	Sodium	427	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	166		*	P
7440-66-6	Zinc	55.7		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM8

FORM I - IN

7/88

042

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-20

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-20

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	6830			P
7440-67-7	Zirconium	36.8			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM8

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-21

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-21

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4380		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	53.5			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5490			P
7440-47-3	Chromium	6.1		N*	P
7440-48-4	Cobalt	21.1			P
7440-50-8	Copper	73.0			P
7439-89-6	Iron	35400		*	P
7439-92-1	Lead	14.9		*	P
7439-95-4	Magnesium	815		*	P
7439-96-5	Manganese	308		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.5			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1590			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.6		N	P
7440-23-5	Sodium	699			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	177		*	P
7440-66-6	Zinc	63.9		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:

B01CM9

FORM I - IN

7/88

044

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-21

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-21

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7530			P
7440-67-7	Zirconium	40.2			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CM9

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-22

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-22

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5100		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	58.2			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5660			P
7440-47-3	Chromium	9.5		N*	P
7440-48-4	Cobalt	27.6			P
7440-50-8	Copper	183			P
7439-89-6	Iron	44400		*	P
7439-92-1	Lead	29.4		*	P
7439-95-4	Magnesium	1040		*	P
7439-96-5	Manganese	392		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	2.1			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	3.9		N	P
7440-23-5	Sodium	780			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	244		*	P
7440-66-6	Zinc	106		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:

B01CN0

FORM I - IN

7/88

046

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-22

Lab Name: S_CUBED_____ Contract: 32359-04__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2751__

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-22___

Level (low/med): LOW__ Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	9910			P
7440-67-7	Zirconium	48.1			P

Color Before: _____ Clarity Before: _____ Texture: FINE__

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
B01CN0

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-23

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-23

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6160		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	71.7			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	6670			P
7440-47-3	Chromium	11.2		N*	P
7440-48-4	Cobalt	30.3			P
7440-50-8	Copper	326			P
7439-89-6	Iron	43300		*	P
7439-92-1	Lead	30.7		*	P
7439-95-4	Magnesium	1210		*	P
7439-96-5	Manganese	401		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.8			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1950			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	3.5		N	P
7440-23-5	Sodium	1190			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	237		*	P
7440-66-6	Zinc	140		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CN1

FORM I - IN

7/88

048

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-23

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-23

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	9550			P
7440-67-7	Zirconium	48.0			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CN1

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-24

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-24

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3490		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	41.4			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5250			P
7440-47-3	Chromium	6.5		N*	P
7440-48-4	Cobalt	23.2			P
7440-50-8	Copper	378			P
7439-89-6	Iron	34200		*	P
7439-92-1	Lead	42.1		*	P
7439-95-4	Magnesium	797		*	P
7439-96-5	Manganese	298		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1450			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.6		N	P
7440-23-5	Sodium	518			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	178		*	P
7440-66-6	Zinc	136		*	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CN2

FORM I - IN

7/88

051

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-24

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-24

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7240			P
7440-67-7	Zirconium	36.0			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CN2

FORM I - IN

7/88

051

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-25

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-25

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3040		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	37.6			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4850			P
7440-47-3	Chromium	5.2		N*	P
7440-48-4	Cobalt	23.5			P
7440-50-8	Copper	51.9			P
7439-89-6	Iron	35100		*	P
7439-92-1	Lead	10.0		*	P
7439-95-4	Magnesium	690		*	P
7439-96-5	Manganese	292		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.9		N	P
7440-23-5	Sodium	410	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	187		*	P
7440-66-6	Zinc	64.6		*	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CN3

FORM I - IN

7/88

052

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-25

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-25

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7770			P
7440-67-7	Zirconium	35.9			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CN3

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-26

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-26

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	2.2	B	*	F
7440-39-3	Barium	95.8			P
7440-41-7	Beryllium	1.8			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	21100			P
7440-47-3	Chromium	9.2		N*	P
7440-48-4	Cobalt	12.2			P
7440-50-8	Copper	20.2			P
7439-89-6	Iron	32400		*	P
7439-92-1	Lead	12.5		*	P
7439-95-4	Magnesium	6130		*	P
7439-96-5	Manganese	308		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	12.9			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	1.3	B	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	691			P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	51.5		*	P
7440-66-6	Zinc	60.2		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN4

FORM I - IN

7/88

054

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-26

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-26

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	970			P
7440-67-7	Zirconium	29.5			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN4

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-27

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-27

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7950		*	P
7440-36-0	Antimony	9.6	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	92.2			P
7440-41-7	Beryllium	0.78			P
7440-43-9	Cadmium	0.39	U		P
7440-70-2	Calcium	8120			P
7440-47-3	Chromium	15.7		N*	P
7440-48-4	Cobalt	8.3			P
7440-50-8	Copper	22.6			P
7439-89-6	Iron	18200		*	P
7439-92-1	Lead	10.6		*	P
7439-95-4	Magnesium	6270		*	P
7439-96-5	Manganese	355		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.8	U		P
7440-02-0	Nickel	17.3			P
7440-09-7	Potassium	2350			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	248	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	33.6		*	P
7440-66-6	Zinc	46.4		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN5

FORM I - IN

7/88

056

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-27

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-27

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	981			P
7440-67-7	Zirconium	13.0	U		P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN5

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-28

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-28

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1550		*	P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	0.90	U	*	F
7440-39-3	Barium	18.4	B		P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	3910			P
7440-47-3	Chromium	1.7		N*	P
7440-48-4	Cobalt	10.4			P
7440-50-8	Copper	16.1			P
7439-89-6	Iron	17400		*	P
7439-92-1	Lead	10.6		*	P
7439-95-4	Magnesium	379	B	*	P
7439-96-5	Manganese	133		*	P
7439-97-6	Mercury	0.15	U		CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	721			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.7		N	P
7440-23-5	Sodium	110	B		P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	78.1		*	P
7440-66-6	Zinc	27.8		*	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN6

FORM I - IN

7/88

058

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-28

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-28

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3360			P
7440-67-7	Zirconium	20.6			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CN6

FORM I - IN

7/88

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

NARRATIVE

DATE: February 11, 1992
REFERENCE NO.: 32359-04, SDG 2751

SILICA*

The samples were analyzed according to Method 370.1 for dissolved silica. There were no difficulties with the analysis. There were significant levels detected in the samples.

The quality control results were acceptable.

AMMONIA*

The samples were analyzed according to Method 350.3. There were no difficulties with the analysis. There were low levels detected in the samples.

The quality control results were acceptable.

ALKALINITY*

The samples were analyzed according to Method 310.1. There were no difficulties with the analysis. There were significant levels detected in the samples.

The quality control results were acceptable.

ANIONS*

The samples were analyzed according to the method. There were no difficulties with the analysis. Dilutions were necessary for several analytes for the analysis of all anions. There were moderate levels detected in the samples.

The quality control results were acceptable.

* Note results page for each analysis for initial weight/final volume information. Initial weight/Final volumes are lower than normal due to the limited amount of sample received

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

SILICA ANALYSIS

LAB:	S-CUBED	DATA REVIEWER:	WW 1/16/92
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE NO:	32359-11
LOT #:	2751	DATE RECEIVED:	12/12/91
FILE#:	SI1212	DATE PREP:	12/24/91
DISK#:	SI1023	DATE ANALYZED:	01/02/92
METHOD:	370.1	MATRIX:	SOIL
		Date Sampled:	11/14/91

RESULTS: UNIT AS MG/KG

	LAB ID	CONCENTRATION
	2751 -1	181
	2751 -2	276
	2751 -3	53.3
	2751 -4	163
	2751 -5	553
	2751 -6	334
	2751 -7	12.4
	2751 -8	14.1
	2751 -9	17.6
	2751 -10	35.8
	2751 -11	14.2
	2751 -12	33.5
	2751 -13	60.2
	2751 -14	57.7
**	2751 -15	3.88
	2751 -16	67.9
**	2751 -17	2.04
	2751 -18	19.8
	2751 -19	27.7
	2751 -20	43.7
	2751 -21	59.2
	2751 -22	86.0
	2751 -23	208
**	2751 -24	1.74
**	2751 -25	0.19
	2751 -26	45.4
**	2751 -27	0.48
	2751 -28	14.2

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % moisture Procedure.

LABORATORY:	S-CUBED	DATA REVIEWER:	aN 2/4/92
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-11
LOT #:	2751	DATE RECEIVED:	12/12/91
FILE#:	NH31212	DATE PREP:	12/24/91
DISK#:	NH31024	DATE ANALYZED:	12/24/91
METHOD NO.	350.3	MATRIX:	SOIL
		Date Sampled:	11/14/91

RESULTS: UNIT AS MG/KG DRY WEIGHT except as noted:

	LAB ID	CONCENTRATION
	2751 -1	< 1.5
	2751 -2	< 0.4
	2751 -3	< 0.3
	2751 -4	< 0.3
	2751 -5	< 0.4
	2751 -6	< 0.3
	2751 -7	< 0.4
	2751 -8	1.32
	2751 -9	< 0.2
	2751 -10	< 0.5
	2751 -11	< 0.4
	2751 -12	< 0.2
	2751 -13	< 0.4
	2751 -14	< 0.3
**	2751 -15	< 0.03
	2751 -16	0.62
**	2751 -17	< 0.03
	2751 -18	< 0.3
	2751 -19	< 0.3
	2751 -20	< 0.4
	2751 -21	< 0.3
	2751 -22	< 0.3
	2751 -23	< 0.5
**	2751 -24	< 0.03
**	2751 -25	< 0.03
	2751 -26	< 0.5
**	2751 -27	< 0.03
	2751 -28	< 0.4

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

ALKALINITY ANALYSIS

LAB:	S-CUBED	DATA REVIEWER:	LWV 2/10/29
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-11
LOT #:	2751	DATE RECIEVED:	12/12/91
FILE #:	ALK1212	DATE PREP:	12/23/91
DISK #:	ALK1016	DATE ANALYZED:	12/23/91
METHOD NO.:	EPA 310.1	MATRIX:	SOIL
		Date Sampled:	11/14/91

RESULTS: RESULTS AS DRY WEIGHT - MG/KG

	LAB ID	CONCENTRATION
	2751 -1	1810
	2751 -2	1380
	2751 -3	1570
	2751 -4	3590
	2751 -5	2470
	2751 -6	2160
	2751 -7	1210
	2751 -8	565
	2751 -9	259
	2751 -10	1280
	2751 -11	706
	2751 -12	551
	2751 -13	967
	2751 -14	697
**	2751 -15	36.0
	2751 -16	284
**	2751 -17	36.0
	2751 -18	402
	2751 -19	626
	2751 -20	453
	2751 -21	564
	2751 -22	404
	2751 -23	1280
**	2751 -24	56.0
**	2751 -25	36.0
	2751 -26	958
**	2751 -27	56.0
	2751 -28	452

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

LABORATORY:	S-CUBED	DATA REVIEWER:	
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-11
LOT #:	2751	DATE RECEIVED:	12-12-91
FILE#:	AWI1212	DATE PREP:	12-20-91
DISK:	AWI1110		01-13/14-92
METHOD NO.	300.0	DATE ANALYZED:	12-23-91
ANALYST:	MT/CS		01-03/06-92
			01-13/14-92
		MATRIX:	SOIL
		DATE SAMPLED:	11-14/92

RESULTS: UNIT AS MG/KG DRY WEIGHT EXCEPT AS NOTED:

	LAB ID	F	CL	NO2	NO3	O-PO4	SO4
	2751 -1	1.59	31.9 *	< 0.02	69.1 *	< 0.5	59.4
	2751 -2	3.44	49.4 *	< 0.02	< 0.5	< 0.5	63.2 *
	2751 -3	3.24	84.2	< 0.02	532	< 0.5	107
	2751 -4	30.4	142	< 0.02	822	< 5	144
	2751 -5	4.08	99.0	0.35	498	1.78	92.1
	2751 -6	6.10	94.9	< 2	499	< 5	61.5
	2751 -7	3.13	3.74	< 2	19.5	< 5	14.7
	2751 -8	2.37	< 1	< 2	< 5	< 5	10.1
	2751 -9	5.90	3.23	< 2	19.2	< 5	13.4
	2751 -10	6.72	3.13	< 2	19.2	< 5	14.7
	2751 -11	3.78	3.98	< 2	19.6	< 5	13.9
	2751 -12	2.39	840	< 2	37.9	< 5	103
	2751 -13	1.99	891	< 2	56.0	< 5	268
	2751 -14	2.37	525	< 2	35.2	< 5	545
**	2751 -15	2.30	590	< 2	43.0	< 5	1060
	2751 -16	2.99	700	< 2	45.4	< 5	1304
**	2751 -17	1.95	565	< 2	39.0	< 5	745
	2751 -18	0.75	6.73	< 2	46.9	2.80	64.3
	2751 -19	0.50	13.4	0.23	106	2.94	116
	2751 -20	0.53	12.6	0.25	98.2	5.00	163
	2751 -21	0.66	13.3	0.36	87.6	8.44	190
	2751 -22	2.27	17.4	< 2	116	149	260
	2751 -23	3.48	27.7	< 2	123	128	407
**	2751 -24	1.95	15.9	< 2	128	8.90	311
**	2751 -25	5.25	11.5	< 2	82.3	10.7	94.1
	2751 -26	2.92	875	< 2	56.0	< 5	86.5
**	2751 -27	2.75	58.5	< 2	308	< 5	< 5
	2751 -28	2.87	57.1	0.85	298	< 5	< 5

COMMENTS:

* The concentration level is above detection limit. No samples re-analyzed due to insufficient amount of samples.

** The concentration of samples 2751-15, 17, 24, 25, and 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: ANI1212

LOT #: 2751
MATRIX: SOIL
DISK#: ANI1110

RESULT OF FLUORIDE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	FINAL VOL ML	DIL. FACTOR	★ CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
	2751 -1	0.540	2	10	1	0.316	1.589	12/23/91	12/20/91	0.02	0.10		
	2751 -2	0.923	2	10	1	0.682	3.442	12/23/91	12/20/91	0.02	0.10		
	2751 -3	0.829	2	10	1	0.643	3.242	12/23/91	12/20/91	0.02	0.10		
	2751 -4	0.840	2	10	10	6.020	30.35	12/23/91	12/20/91	0.20	1.01		
	2751 -5	0.978	2	10	1	0.807	4.075	12/23/91	12/20/91	0.02	0.10		
	2751 -6	0.868	2	10	10	1.210	6.103	12/23/91	12/20/91	0.20	1.01		
	2751 -7	1.092	2	10	10	0.620	3.134	12/23/91	12/20/91	0.20	1.01		
	2751 -8	0.886	1	5	10	0.470	2.371	01/13/92	01/13/92	0.20	1.01		
	2751 -8R	0.886	1	5	10	0.260	1.312	01/13/92	01/13/92	0.20	1.01		58
	2751 -8S	0.886	1	5	10	8.480	42.78	01/13/92	01/13/92	0.20	1.01	80	
	2751 -9	0.802	2	10	10	1.170	5.897	12/23/91	12/20/91	0.20	1.01		
	2751 -10	1.072	2	10	10	1.330	6.722	12/23/91	12/20/91	0.20	1.01		
	2751 -11	0.801	2	10	10	0.750	3.780	12/23/91	12/20/91	0.20	1.01		
	2751 -12	1.528	2	10	10	0.470	2.386	01/03/92	12/20/91	0.20	1.02		
	2751 -13	1.764	2	10	10	0.390	1.985	01/03/92	12/20/91	0.20	1.02		
	2751 -14	0.985	2	10	10	0.470	2.373	01/03/92	12/20/91	0.20	1.01		
	2751 -14R	0.985	2	10	10	0.550	2.777	01/03/92	12/20/91	0.20	1.01		16
	2751 -14S	0.985	2	10	10	11.94	60.29	01/03/92	12/20/91	0.20	1.01	115	
**	2751 -15		2	10	10	0.460	2.30	01/03/92	12/20/91	0.20	1.0		
	2751 -16	1.427	2	10	10	0.590	2.993	01/03/92	12/20/91	0.20	1.01		
**	2751 -17		2	10	10	0.390	1.95	01/03/92	12/20/91	0.20	1.0		
	2751 -18	0.448	2	10	1	0.150	0.753	01/03/92	12/20/91	0.02	0.10		
	2751 -19	0.542	2	10	1	0.100	0.503	01/06/92	12/20/91	0.02	0.10		
	2751 -20	0.676	2	10	1	0.106	0.534	01/06/92	12/20/91	0.02	0.10		
	2751 -21	0.703	2	10	1	0.130	0.655	01/06/92	12/20/91	0.02	0.10		
	2751 -22	0.945	2	10	10	0.450	2.271	01/06/92	12/20/91	0.20	1.01		
	2751 -23	0.945	2	10	10	0.690	3.483	01/06/92	12/20/91	0.20	1.01		
**	2751 -24		2	10	10	0.390	1.95	01/06/92	12/20/91	0.20	1.0		
**	2751 -25		2	10	10	1.050	5.25	01/06/92	12/20/91	0.20	1.0		
	2751 -26	2.540	2	10	10	0.570	2.924	01/06/92	12/20/91	0.20	1.03		
**	2751 -27		2	10	10	0.550	2.75	01/06/92	12/20/91	0.20	1.0		
	2751 -28	0.540	2	10	10	0.570	2.865	01/06/92	12/20/91	0.20	1.01		

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

★ Dilution factor has already computed in.

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: ANI1212

LOT #: 2751
MATRIX: SOIL
DISK#: ANI1110

RESULT OF CHLORIDE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	SAMPLE VOL ML	DIL. FACTOR	*** CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
*	2751 -1	0.540	2	10	1	6.42	* 31.9	01/14/92	01/14/92	0.02	0.1		
*	2751 -2	0.923	2	10	1	9.80	* 49.4	01/14/92	01/14/92	0.02	0.1		
	2751 -3	0.829	0.5	2.5	100	16.70	84.20	01/14/92	01/14/92	2.00	10.1		
	2751 -4	0.840	2	10	100	28.20	142.2	12/23/91	12/20/91	2.00	10.1		
	2751 -5	0.978	2	10	10	19.60	98.97	12/23/91	12/20/91	0.20	1.01		
	2751 -6	0.868	2	10	10	18.81	94.87	12/23/91	12/20/91	0.20	1.01		
	2751 -7	1.092	2	10	10	0.740	3.741	12/23/91	12/20/91	0.20	1.01		
	2751 -8	0.886	1	5	10	< 0.20	< 1.01	01/13/92	01/13/92	0.20	1.01		
	2751 -8R	0.886	1	5	10	< 0.20	< 1.01	01/13/92	01/13/92	0.20	1.01		NC
	2751 -8S	0.886	1	5	10	7.950	40.11	01/13/92	01/13/92	0.20	1.01	80	
	2751 -9	0.802	2	10	10	0.640	3.226	12/23/91	12/20/91	0.20	1.01		
	2751 -10	1.072	2	10	10	0.620	3.134	12/23/91	12/20/91	0.20	1.01		
	2751 -11	0.801	2	10	10	0.790	3.982	12/23/91	12/20/91	0.20	1.01		
	2751 -12	1.528	2	10	100	165.5	840.3	01/03/92	12/20/91	2.00	10.2		
	2751 -13	1.764	2	10	100	175.0	890.7	01/03/92	12/20/91	2.00	10.2		
	2751 -14	0.985	2	10	100	104.0	525.2	01/03/92	12/20/91	2.00	10.1		
	2751 -14R	0.985	2	10	100	102.0	515.1	01/03/92	12/20/91	2.00	10.1		2
	2751 -14S	0.985	2	10	100	199.0	1005	01/03/92	12/20/91	2.00	10.1	95	
**	2751 -15		2	10	100	118.0	590	01/03/92	12/20/91	2.00	10		
	2751 -16	1.427	2	10	100	138.0	700.0	01/03/92	12/20/91	2.00	10.1		
**	2751 -17		2	10	100	113.0	565	01/03/92	12/20/91	2.00	10		
	2751 -18	0.448	2	10	1	1.340	6.730	01/03/92	12/20/91	0.02	0.10		
	2751 -19	0.542	2	10	10	2.660	13.37	01/03/92	01/03/92	0.20	1.01		
	2751 -20	0.676	2	10	10	2.510	12.64	01/03/92	01/03/92	0.20	1.01		
	2751 -21	0.703	2	10	10	2.650	13.34	01/03/92	01/03/92	0.20	1.01		
	2751 -22	0.945	2	10	10	3.450	17.41	01/06/92	12/20/91	0.20	1.01		
	2751 -23	0.945	2	10	10	5.480	27.66	01/06/92	12/20/91	0.20	1.01		
**	2751 -24		2	10	10	3.180	16.9	01/06/92	12/20/91	0.20	1.0		
**	2751 -25		2	10	10	2.290	11.5	01/06/92	12/20/91	0.20	1.0		
	2751 -26	2.540	2	10	100	170.5	874.7	01/06/92	12/20/91	2.00	10.3		
**	2751 -27		2	10	10	11.68	58.5	01/06/92	12/20/91	0.20	1.0		
	2751 -28	0.520	2	10	10	11.35	57.05	01/06/92	12/20/91	0.20	1.01		

COMMENTS:

* Samples 2751-1, 2 ~~are not reported. The samples~~ were concentration levels are above the standard curve; and the samples could not be reanalyzed diluted due to insufficient amount of sample.

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

*** Dilution has already factored in

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: ANI1212

LOT #: 2751
MATRIX: SOIL
DISK#: ANI1110

RESULT OF NITRITE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	SAMPLE VOL ML	DIL. FACTOR	★ CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
	2751 -1	0.540	2	10	1	< 0.04	< 0.20	12/23/91	12/20/91	0.04	0.20		
	2751 -2	0.923	2	10	1	< 0.04	< 0.20	12/23/91	12/20/91	0.04	0.20		
	2751 -3	0.829	2	10	1	< 0.04	< 0.20	12/23/91	12/20/91	0.04	0.20		
	2751 -4	0.840	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -5	0.978	2	10	1	0.070	0.353	12/23/91	12/20/91	0.04	0.20		
	2751 -6	0.868	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -7	1.092	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -8	0.886	1	5	10	< 0.40	< 2.02	01/13/92	01/13/92	0.40	2.02		
	2751 -8R	0.886	1	5	10	< 0.40	< 2.02	01/13/92	01/13/92	0.40	2.02		NC
	2751 -8S	0.886	1	5	10	9.480	47.82	01/13/92	01/13/92	0.40	2.02	95	
	2751 -9	0.802	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -10	1.072	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -11	0.801	2	10	10	< 0.40	< 2.02	12/23/91	12/20/91	0.40	2.02		
	2751 -12	1.528	2	10	10	< 0.40	< 2.03	01/03/92	12/20/91	0.40	2.03		
	2751 -13	1.764	2	10	10	< 0.40	< 2.04	01/03/92	12/20/91	0.40	2.04		
	2751 -14	0.985	2	10	10	< 0.40	< 2.02	01/03/92	12/20/91	0.40	2.02		
	2751 -14R	0.985	2	10	10	< 0.40	< 2.02	01/03/92	12/20/91	0.40	2.02		NC
	2751 -14S	0.985	2	10	10	10.00	50.50	01/03/92	12/20/91	0.40	2.02	100	
**	2751 -15		2	10	10	< 0.40	< 2	01/03/92	12/20/91	0.40	2		
	2751 -16	1.427	2	10	10	< 0.40	< 2.03	01/03/92	12/20/91	0.40	2.03		
**	2751 -17		2	10	10	< 0.40	< 2	01/03/92	12/20/91	0.40	2		
	2751 -18	0.448	2	10	10	< 0.40	< 2.01	01/03/92	12/20/91	0.40	2.01		
	2751 -19	0.542	2	10	1	0.046	0.231	01/06/92	12/20/91	0.04	0.20		
	2751 -20	0.676	2	10	1	0.049	0.247	01/06/92	12/20/91	0.04	0.20		
	2751 -21	0.703	2	10	1	0.072	0.363	01/06/92	12/20/91	0.04	0.20		
	2751 -22	0.945	2	10	10	< 0.40	< 2.02	01/06/92	12/20/91	0.40	2.02		
	2751 -23	0.945	2	10	10	< 0.40	< 2.02	01/06/92	12/20/91	0.40	2.02		
**	2751 -24		2	10	10	< 0.40	< 2	01/06/92	12/20/91	0.40	2		
**	2751 -25		2	10	10	< 0.40	< 2	01/06/92	12/20/91	0.40	2		
	2751 -26	2.540	2	10	10	< 0.40	< 2.05	01/06/92	12/20/91	0.40	2.05		
**	2751 -27		2	10	10	< 0.40	< 2	01/06/92	12/20/91	0.40	2		
	2751 -28	0.520	2	10	10	0.170	0.854	01/06/92	12/20/91	0.40	2.01		

COMMENTS:

Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

★ Dilution has already factored in.

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: AN11212

LOT #: 2751
MATRIX: SOIL
DISK#: AN11110

RESULT OF NITRATE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	SAMPLE VOL ML	DIL. FACTOR	*** CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
*	2751 -1	0.540	2	10	1	13.8	69.1	12/23/91	12/20/91	0.1	0.5		
	2751 -2	0.923	2	10	1	< 0.1	< 0.50	12/23/91	12/20/91	0.1	0.50		
	2751 -3	0.829	0.5	2.5	100	105.6	532.4	01/14/92	01/14/92	10	50.4		
	2751 -4	0.840	2	10	100	163.1	822.4	12/23/91	12/20/91	10	50.4		
	2751 -5	0.978	2	10	10	98.65	498.1	12/23/91	12/20/91	1.0	5.05		
	2751 -6	0.868	2	10	10	98.97	499.2	12/23/91	12/20/91	1.0	5.04		
	2751 -7	1.092	2	10	10	3.850	19.46	12/23/91	12/20/91	1.0	5.06		
	2751 -8	0.886	1	5	10	< 1.0	< 5.04	01/13/92	01/13/92	1.0	5.04		
	2751 -8R	0.886	1	5	10	< 1.0	< 5.04	01/13/92	01/13/92	1.0	5.04		NC
	2751 -8S	0.886	1	5	10	46.67	235.4	01/13/92	01/13/92	1.0	5.04	93	
	2751 -9	0.802	2	10	10	3.800	19.15	12/23/91	12/20/91	1.0	5.04		
	2751 -10	1.072	2	10	10	3.800	19.21	12/23/91	12/20/91	1.0	5.05		
	2751 -11	0.801	2	10	10	3.890	19.61	12/23/91	12/20/91	1.0	5.04		
	2751 -12	1.528	2	10	10	7.470	37.93	01/03/92	12/20/91	1.0	5.08		
	2751 -13	1.764	2	10	10	11.00	55.99	01/03/92	12/20/91	1.0	5.09		
	2751 -14	0.985	2	10	10	6.960	35.15	01/03/92	12/20/91	1.0	5.05		
	2751 -14R	0.985	2	10	10	7.080	35.75	01/03/92	12/20/91	1.0	5.05		2
	2751 -14S	0.985	2	10	10	52.92	267.2	01/03/92	12/20/91	1.0	5.05	92	
**	2751 -15		2	10	10	8.600	43.0	01/03/92	12/20/91	1.0	5		
	2751 -16	1.427	2	10	10	8.940	45.35	01/03/92	12/20/91	1.0	5.07		
**	2751 -17		2	10	10	7.800	39.0	01/03/92	12/20/91	1.0	5		
	2751 -18	0.448	2	10	1	9.340	46.91	01/03/92	12/20/91	0.1	0.50		
	2751 -19	0.542	2	10	10	21.00	105.6	01/03/92	12/20/91	1.0	5.03		
	2751 -20	0.676	2	10	10	19.50	98.16	01/03/92	12/20/91	1.0	5.03		
	2751 -21	0.703	2	10	10	17.40	87.62	01/03/92	12/20/91	1.0	5.04		
	2751 -22	0.945	2	10	10	22.94	115.8	01/06/92	12/20/91	1.0	5.05		
	2751 -23	0.945	2	10	10	24.42	123.3	01/06/92	12/20/91	1.0	5.05		
**	2751 -24		2	10	10	25.52	128	01/06/92	12/20/91	1.0	5		
**	2751 -25		2	10	10	16.45	82.3	01/06/92	12/20/91	1.0	5		
	2751 -26	2.540	2	10	10	10.91	55.97	01/06/92	12/20/91	1.0	5.13		
**	2751 -27		2	10	10	61.69	308	01/06/92	12/20/91	1.0	5		
	2751 -28	0.520	2	10	10	59.24	297.7	01/06/92	12/20/91	1.0	5.03		

COMMENTS:

* Sample 2751-1 ~~is not reported. The sample's concentration~~ level is above the standard curve; and the sample could not be reanalyzed diluted due to insufficient amount of sample.

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

*** Dilution has already factored in.

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: ANI1212

LOT #: 2751
MATRIX: SOIL
DISK#: ANI1110
MATRIX: SOIL

RESULT OF ORTHO-PHOSPHATE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	SAMPLE VOL ML	DIL. FACTOR	* CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
	2751 -1	0.540	2	10	1	< 0.1	< 0.50	12/23/91	12/20/91	0.1	0.50		
	2751 -2	0.923	2	10	1	< 0.1	< 0.50	12/23/91	12/20/91	0.1	0.50		
	2751 -3	0.829	2	10	1	< 0.1	< 0.50	12/23/91	12/20/91	0.1	0.50		
	2751 -4	0.840	2	10	10	< 1.0	< 5.04	12/23/91	12/20/91	1.0	5.04		
	2751 -5	0.978	2	10	1	0.353	1.782	12/23/91	12/20/91	0.1	0.50		
	2751 -6	0.868	2	10	10	< 1.0	< 5.04	12/23/91	12/20/91	1.0	5.04		
	2751 -7	1.092	2	10	10	< 1.0	< 5.06	12/23/91	12/20/91	1.0	5.06		
	2751 -8	0.886	1	5	10	< 1.0	< 5.04	01/13/92	01/13/92	1.0	5.04		
	2751 -8R	0.886	1	5	10	< 1.0	< 5.04	01/13/92	01/13/92	1.0	5.04		NC
	2751 -8S	0.886	1	5	10	44.63	225.1	01/13/92	01/13/92	1.0	5.04	89	
	2751 -9	0.802	2	10	10	< 1.0	< 5.04	12/23/91	12/20/91	1.0	5.04		
	2751 -10	1.072	2	10	10	< 1.0	< 5.05	12/23/91	12/20/91	1.0	5.05		
	2751 -11	0.801	2	10	10	< 1.0	< 5.04	12/23/91	12/20/91	1.0	5.04		
	2751 -12	1.528	2	10	10	< 1.0	< 5.08	01/03/92	12/20/91	1.0	5.08		
	2751 -13	1.764	2	10	10	< 1.0	< 5.09	01/03/92	12/20/91	1.0	5.09		
	2751 -14	0.985	2	10	10	< 1.0	< 5.05	01/03/92	12/20/91	1.0	5.05		
	2751 -14R	0.985	2	10	10	< 1.0	< 5.05	01/03/92	12/20/91	1.0	5.05		NC
	2751 -14S	0.985	2	10	10	48.67	245.8	01/03/92	12/20/91	1.0	5.05	97	
**	2751 -15		2	10	10	< 1.0	< 5	01/03/92	12/20/91	1.0	5		
	2751 -16	1.427	2	10	10	< 1.0	< 5.07	01/03/92	12/20/91	1.0	5.07		
**	2751 -17		2	10	10	< 1.0	< 5	01/03/92	12/20/91	1.0	5		
	2751 -18	0.448	2	10	1	0.558	2.803	01/03/92	12/20/91	0.1	0.50		
	2751 -19	0.542	2	10	1	0.584	2.936	01/06/92	12/20/91	0.1	0.50		
	2751 -20	0.676	2	10	1	0.994	5.004	01/06/92	12/20/91	0.1	0.50		
	2751 -21	0.703	2	10	1	1.677	8.444	01/06/92	12/20/91	0.1	0.50		
	2751 -22	0.945	2	10	10	2.950	148.9	01/06/92	12/20/91	1.0	5.05		
	2751 -23	0.945	2	10	10	2.530	127.7	01/06/92	12/20/91	1.0	5.05		
**	2751 -24		2	10	10	1.780	8.9	01/06/92	12/20/91	1.0	5		
**	2751 -25		2	10	10	2.140	<5 10.7	01/06/92	12/20/91	1.0	5		
	2751 -26	2.540	2	10	10	< 1.0	< 5.13	01/06/92	12/20/91	1.0	5.13		
**	2751 -27		2	10	10	< 1.0	< 5	01/06/92	12/20/91	1.0	5		
	2751 -28	0.520	2	10	10	< 1.0	< 5.03	01/06/92	12/20/91	1.0	5.03		

COMMENTS:

Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

* Dilution factor has already factored in.

LABORATORY: S-CUBED
ANALYST: MT/CS
FILE#: ANI1212

LOT #: 2751
MATRIX: SOIL
DISK#: ANI1110
MATRIX: SOIL

RESULT OF SULPHATE: UNIT AS MG/KG

	LAB ID	% MOISTURE	SAMPLE WT. (GM)	SAMPLE VOL ML	DIL. FACTOR	*** CONC. FOUND MG/L	FINAL CONC. MG/KG	ANALYSIS DATE	PREPARATION DATE	METHOD DETECTION MG/L	METHOD DETECTION MG/KG	%REC.	%RSD
	2751 -1	0.540	1	5	10	11.81	59.37	01/13/92	01/13/92	1.00	5.03		
*	2751 -2	0.923	2	10	1	12.63*	63.15	02/23/91	12/20/91	0.1	0.5		
	2751 -3	0.829	1	5	10	21.15	106.6	01/13/92	01/13/92	1.00	5.04		
	2751 -4	0.840	2	10	100	28.50	143.7	12/23/91	12/20/91	10.0	50.4		
	2751 -5	0.978	2	10	10	18.24	92.10	12/23/91	12/20/91	1.00	5.05		
	2751 -6	0.868	2	10	10	12.20	61.53	12/23/91	12/20/91	1.00	5.04		
	2751 -7	1.092	2	10	10	2.900	14.66	12/23/91	12/20/91	1.00	5.06		
	2751 -8	0.886	1	5	10	2.010	10.14	01/13/92	01/13/92	1.00	5.04		
	2751 -8R	0:886	1	5	10	2.050	10.34	01/13/92	01/13/92	1.00	5.04		2
	2751 -8S	0.886	1	5	10	43.97	221.8	01/13/92	01/13/92	1.00	5.04	84	
	2751 -9	0.802	2	10	10	2.660	13.41	12/23/91	12/20/91	1.00	5.04		
	2751 -10	1.072	2	10	10	2.900	14.66	12/23/91	12/20/91	1.00	5.05		
	2751 -11	0.801	2	10	10	2.750	13.86	12/23/91	12/20/91	1.00	5.04		
	2751 -12	1.528	2	10	10	20.30	103.1	01/03/92	12/20/91	1.00	5.08		
	2751 -13	1.764	2	10	10	52.60	267.7	01/03/92	12/20/91	1.00	5.09		
	2751 -14	0.985	2	10	100	108.0	545.4	01/03/92	12/20/91	10.0	50.5		
	2751 -14R	0.985	2	10	100	108.0	545.4	01/03/92	12/20/91	10.0	50.5		0
	2751 -14S	0.985	2	10	100	585.0	2954	01/03/92	12/20/91	10.0	50.5	95	
**	2751 -15		2	10	100	212.0	1060	01/03/92	12/20/91	10.0	50		
	2751 -16	1.427	2	10	100	257.0	1304	01/03/92	12/20/91	10.0	50.7		
**	2751 -17		2	10	100	149.0	745	01/03/92	12/20/91	10.0	50		
	2751 -18	0.448	2	10	10	12.80	64.29	01/03/92	12/20/91	1.00	5.02		
	2751 -19	0.542	2	10	10	23.10	116.1	01/03/92	12/20/91	1.00	5.03		
	2751 -20	0.676	2	10	10	32.40	163.1	01/03/92	12/20/91	1.00	5.03		
	2751 -21	0.703	2	10	10	37.70	189.8	01/03/92	12/20/91	1.00	5.04		
	2751 -22	0.945	2	10	10	51.42	259.6	01/06/92	12/20/91	1.00	5.05		
	2751 -23	0.945	2	10	10	80.56	406.6	01/06/92	12/20/91	1.00	5.05		
**	2751 -24		2	10	10	62.19	311	01/06/92	12/20/91	1.00	5		
**	2751 -25		2	10	10	18.82	94.1	01/06/92	12/20/91	1.00	5		
	2751 -26	2.540	2	10	10	16.85	86.45	01/06/92	12/20/91	1.00	5.13		
**	2751 -27		2	10	10	< 1.0	< 5	01/06/92	12/20/91	1.00	5		
	2751 -28	0.520	2	10	10	< 1.0	< 5.03	01/06/92	12/20/91	1.00	5.03		

COMMENTS:

* Sample 2751-2 ~~is not reported. The sample's~~ (WW) concentration level is above the standard curve; and the sample could not be reanalyzed diluted due to insufficient amount of sample.

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

*** Dilution has already factored in.

CORRESPONDENCE DISTRIBUTION COVERSHEET

To: Distribution

From: Environmental Quality Assurance
H4-16 / 6-8557 / 6-9490

Subject: DISTRIBUTION OF NCR #B06175 (EQA-92-013)

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	W/att
		M. A. Beck	T6-08	
		J. H. Kessner	T6-08	
		J. D. Hoover	H4-57	
		L. W. Vance	H4-16	
		APA	B5-20	
		QUEST	L4-86	
		EQA File	H4-16	

Jeanette
Fancy
Ford
Jeff

MAY 1992
RECEIVED
J.H. KESSNER

Westinghouse Hanford Company

Hanford Operations and Engineering Contractor for the US Department of Energy
P.O. Box 1970 Richland, Wa. 99352

NONCONFORMANCE REPORT

Page 1 of ____

No. B 06175

MFR/ORG: MAXWELL S-CORED DIVISION

ITEM/MATERIAL NAME: ENVIR. SAMPLE

PART NO.: N/A

DRAWING/SPEC. NO.:

REV.: N/A

PROGRAM/PROJECT: SITE-WIDE BACKGROUND

P.O./W.O. NO.:

USUAL OCCURRENCE PORT REQUIRED: ☐ YES ☒ NO

SYSTEM/END USE:

DATE: 01/28/92

DESCRIPTION OF NONCONFORMANCE

LABORATORY IS PERFORMING INORGANIC ANALYSIS (SOIL) WITHOUT UTILIZING A SOLID MATRIX LCS FOR CLP METALS ANALYSIS.

EXAMPLES: SDG #2630 & 2633

NOTE: THE LAB INDICATES THAT ALL METAL ANALYSIS (CLP) HAVE BEEN PERFORMED WITHOUT A SOIL LCS.

3. REQUIREMENT VIOLATED

"ONE SOLID LCS MUST BE PREPARED & ANALYZED FOR EVERY GROUP OF SOLID SAMPLES IN A SAMPLE DELIVERY GROUP....."

DOCUMENT	REV	ZONE/PARA
CLP-SOW INORGANICS	2/88	PART E, SECTION V, ITEM #8

M.A. Bock — ORIGINATOR
12500/05M — ORGANIZATION
01/28/92 — DATE

ASME CODE ITEM(s): ☐ NO ☐ YES. NOTIFY AUTHORIZED INSPECTOR.

WHC QAR:

CAUSE OF NONCONFORMANCE

PROCEDURES ☐ PERSONNEL ☐ MATERIALS
EQUIPMENT ☒ OTHERS

MARKS: See 8A

PR-07, EQ-001-002

6. CORRECTIVE ACTION TO ELIMINATE CAUSE

- S³ has obtained and is currently using a solid LCS sample for the QC requirement (see S³ letter to T. Washington 3/20)

INITIATION DATE: SERIAL NO.:

RESPONSIBLE ORG. REP. TITLE DATE

RECOMMENDED DISPOSITION: ☒ ACCEPT ☐ REJECT ☐ REPAIR ☐ REWORK ☐ OTHER

DISPOSITION JUSTIFICATION AND INSTRUCTIONS

S³ did perform the LCS at the required frequency using an aqueous standard prior to receiving and testing the solid LCS. The aqueous LCS results were evaluated in the applicable data packages and performance was documented with the validation paperwork.

9. ADDITIONAL REVIEWS REQUIRED (WHC ONLY) ☐ YES ☒ NO

IF YES, IDENTIFY:

SUPPLIER ENG. SUPPLIER QA

DISPOSITION APPROVAL (WHC ONLY)

☒ APPROVED ☐ DISAPPROVED
☐ OTHER (SEE CONTINUATION SHEET)

J. A. Hoover — 5/21/92 — DATE
CGNIZANT ENGINEER

W. VANCE — R. W. Vance — 5/21/92 — DATE
CGNIZANT QA ENGINEER

NA
AUTHORIZED INSPECTOR REVIEW — DATE

11. ADDITIONAL APPROVALS

NAME	TITLE	DATE	NAME	TITLE	DATE

DISPOSITION ACTION COMPLETE

R. W. Vance — 5/21/92 — QTY. ACCEPT NA — QTY. REJ. NA
NAME DATE

FOLLOW ON NCR

WA LOG NO. 92-013

The issuance and acceptance of this request in no way limits or affects the warranty provisions of the order. This request shall not establish a precedent or obligation to accept similar conditions in the future.

FOLLOW-UP LEVEL A ☐ B ☐ C ☐

104 (8-87)

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

March 27, 1992

Ted Washington
MSIN: T6-08
Office of Sample Management
Westinghouse Hanford Company
2355 Stevens Drive
Richland, WA 99352

Dear Mr. Washington:

We have recently been able to validate and confirm true values for the ERA solid LCS source using the CLP method. The validation study was performed by preparing and analyzing ten solid LCS samples using the CLP method and determining the average value obtained for each analyte and the appropriate windows of acceptability. This validation study was required by the solid LCS source since the certified true value determinations were based on the method 3050, SW-846 (see attached sheet).

Prior to the availability of validated solid LCS for CLP soil analysis, EPA-approved aqueous LCS spike solution was spiked into a clean, empty beaker and then prepared and analyzed by the CLP soil method. Thus quality control requirements for preparation and analysis are acceptable and confirm the reliability and validity of the associated samples using the available LCS at that time.

Sincerely,

Wipawan Nisamaneepong

Wipawan Nisamaneepong, Ph.D.
Inorganics Laboratory Manager

MAXWELL
S-CUBED Division

FAX

TO:	M. Beck
FROM:	J. Goodin
DATE:	January 22, 1992
FAX NO:	(509) 373-3992
Pages to follow:	0

At S-Cubed, we do not have access to the EPA's solid LCS sample described in the CLP protocols because we are not currently under CLP contract with them for inorganic analysis. It might be possible to obtain some other solid reference material, but we have not yet found one containing all or even most of the metals. In the Quality Assurance Project Plan for Westinghouse Hanford Company, no solid LCS is specified and no solid LCS is discussed in the SW-846 (RCRA) methods. The LCS is used to determine laboratory consistency, for which purpose the liquid LCS is sufficient and allows us to monitor all of the metals of interest. We have recently analyzed a purchased solid reference standard, containing five of the metals, and would be glad to furnish you with these results. I hope that this explanation will satisfy your client. If you have any other questions or comments, please call me at (619) 587-8409.

all soil
B01CK9 B01CL0
B01CL1 B01CL2
B01CL3 B01CL4

OSM RCRA DATA ASSESSMENT

DATE 2/13/92 mcg.

REVIEWED BY Mark A. Beck

LABORATORY Maxwell-S-Cubed

CASE # Site Wide Soil

SDG # 2751

SAMPLES/MATRIX B01CL5 B01CL6 B01CL7 B01CL8 B01CL9 B01CM0 B01CM1 B01CM2 B0CM3 B0CM4 B01CM5 B01CM6 B01CM7 B01CM8 B01CM9 B01CN0 B01CN1 B01CN2 B01CN3 B01CN4 B01CN5 B01CN6

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	Silica by 370.1 / Ammonia by 350.3	alkalinity by 310.1	anions by 300.0
1. Holding times		X	X	M
2. Matrix Spike		O	O	O
3. Duplicates		O	O	X
4. Blanks		O	O	O
5. Calibration/LCS		O	O	X
6. Other		O	O	O
7.				
8.				
9.				
10.				

O = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: The data are acceptable with attached qualifiers. Holding times were missed for all analyses and samples.

NOTES: "anions" includes: Fluoride, chloride, nitrate nitrite, phosphate and sulfate.

o Refer to the corresponding attachments for explanation of any problems.
The correspondence between WHC sample numbers and laboratory sample numbers can be found on the enclosed "Sample Summary"

RCRA QC

Name Mark A. Beck Date 2/13/92 mas.

QC Check: Holding times

COMMENTS: all holding times were missed for all analytes, based on the Chain of custody and the lab analysis date. However, the "collection date" on the chain of custody (COC) may not reflect the actual date the soil samples were taken, but may indicate the receiving date. So these samples may be older than the COC indicates.

ACTION: Qualify all ~~analy~~ analytes estimated J or UJ for all samples.

sample #	constituent	value/qual	sample #	constituent	value/qual
all	all	J or UJ			

___ of ___

RCRA QC

Name Mark A. Beck Date 2/13/92 mab.

QC Check: Matrix Spikes

COMMENTS: Two matrix spikes were run for each analyte, as is appropriate with this large an SDG. All spikes had recoveries within control limits.

ACTION: none - none needed

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA QC

Name Mark A. Beck Date 2/13/92 mab.

QC Check: Duplicates

COMMENTS: Two sets of duplicates were run, as is appropriate with a SDG this large. The only analyte out of control ~~is~~ for PSRSD is fluoride for B01LL6 due to what the laboratory claims is inhomogeneity. Any samples with similar levels of inhomogeneity would also be suspect for reproducibility for fluoride

ACTION: none - all samples previously qualified estimated, and only project personnel can determine which samples are similarly inhomogenous.

sample #	constituent	value/qual	sample #	constituent	value/qual
all inhomogenous	fluoride	none			

___ of ___

RCRA QC

Name Mark A. Beck Date 2/13/92 mab.

QC Check: Blanks

COMMENTS: All blanks were free from contamination for all analytes. Appropriate blanks were run.

ACTION: none - none needed

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA QC

Name Mark A. Beck Date 2/13/92 mdg.

QC Check: Calibrations/LCS

COMMENTS: All methods and all runs had acceptable calibration run. All ICV, CCV and LCS's ~~wh~~ were within control limits except for sulfate for LCS 0113, which only affects those samples run ~~to~~ at the same time as that LCS.

ACTION: Qualify all ~~sulfate samp~~ sulfate results as estimated for all results that a) were greater than the IOC and 2) were run during the same analysis run.

sample #	constituent	value/qual	sample #	constituent	value/qual
B01CK9	sulfate	J			
B01CL1	values				
~~B01CL2~~	(not used)				
B01CL6					

___ of ___

RCRA QC

Name Mark A. Beck Date 2/13/92 MAB.

QC Check: Other

COMMENTS: none - none needed

ACTION: none - none needed.

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

SILICA ANALYSIS

LAB:	S-CUBED	DATA REVIEWER: WW 1/16/92	
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE NO:	32359-11
LOT #:	2751	DATE RECEIVED:	12/12/91
FILE#:	SI1212	DATE PREP:	12/24/91
DISK#:	SI1023	DATE ANALYZED:	01/02/92
METHOD:	370.1	MATRIX:	SOIL
		Date Sampled:	11/14/91

RESULTS: UNIT AS MG/KG

	LAB ID	CONCENTRATION
	2751 -1	181 J
	2751 -2	276
	2751 -3	53.3
	2751 -4	163
	2751 -5	553
	2751 -6	334
	2751 -7	12.4
	2751 -8	14.1
	2751 -9	17.6
	2751 -10	35.8
	2751 -11	14.2
	2751 -12	33.5
	2751 -13	60.2
	2751 -14	57.7
**	2751 -15	3.88
	2751 -16	67.9
**	2751 -17	2.04
	2751 -18	19.8
	2751 -19	27.7
	2751 -20	43.7
	2751 -21	59.2
	2751 -22	86.0
	2751 -23	208
**	2751 -24	1.74
**	2751 -25	0.19
	2751 -26	45.4
**	2751 -27	0.48
	2751 -28	14.2 J

2/13/92 mah

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % moisture Procedure.

LABORATORY:	S-CUBED	DATA REVIEWER:	CN 2/4/92
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-11
LOT #:	2751	DATE RECEIVED:	12/12/91
FILE#:	NH31212	DATE PREP:	12/24/91
DISK#:	NH31024	DATE ANALYZED:	12/24/91
METHOD NO.	350.3	MATRIX:	SOIL
		Date Sampled:	11/14/91

RESULTS: UNIT AS MG/KG DRY WEIGHT except as noted:

	LAB ID	CONCENTRATION
	2751 -1	< 1.5 UJ
	2751 -2	< 0.4
	2751 -3	< 0.3
	2751 -4	< 0.3
	2751 -5	< 0.4
	2751 -6	< 0.3
	2751 -7	< 0.4 UJ
	2751 -8	1.32 J
	2751 -9	< 0.2 UJ
	2751 -10	< 0.5
	2751 -11	< 0.4
	2751 -12	< 0.2
	2751 -13	< 0.4
	2751 -14	< 0.3
**	2751 -15	< 0.03 UJ
	2751 -16	0.62 J
**	2751 -17	< 0.03 UJ
	2751 -18	< 0.3
	2751 -19	< 0.3
	2751 -20	< 0.4
	2751 -21	< 0.3
	2751 -22	< 0.3
	2751 -23	< 0.5 UJ
**	2751 -24	< 0.03
**	2751 -25	< 0.03
	2751 -26	< 0.5
**	2751 -27	< 0.03
	2751 -28	< 0.4 UJ

2/12/92 MGK

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

ALKALINITY ANALYSIS

LAB: S-CUBED
CLIENT: WHC
CASE: SITE WIDE SOIL
LOT #: 2751
FILE #: ALK1212
DISK #: ALK1016
METHOD NO.: EPA 310.1

DATA REVIEWER: LWV 2/10/29
PROJECT REVIEWER:
CHARGE #: 32359-11
DATE RECIEVED: 12/12/91
DATE PREP: 12/23/91
DATE ANALYZED: 12/23/91
MATRIX: SOIL
Date Sampled: 11/14/91

RESULTS: RESULTS AS DRY WEIGHT - MG/KG

	LAB ID	CONCENTRATION
	2751 -1	1810 J
	2751 -2	1380
	2751 -3	1570
	2751 -4	3590
	2751 -5	2470
	2751 -6	2160
	2751 -7	1210
	2751 -8	565
	2751 -9	259
	2751 -10	1280
	2751 -11	706
	2751 -12	551
	2751 -13	967
	2751 -14	697
**	2751 -15	36.0
	2751 -16	284
**	2751 -17	36.0
	2751 -18	402
	2751 -19	626
	2751 -20	453
	2751 -21	564
	2751 -22	404
	2751 -23	1280
**	2751 -24	56.0
**	2751 -25	36.0
	2751 -26	958
**	2751 -27	56.0 J
	2751 -28	452 J

2/13/92 mab

COMMENTS:

** Samples 2751-15, 17, 24, 25, 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

LABORATORY:	S-CUBED	DATA REVIEWER:	
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-11
LOT #:	2751	DATE RECEIVED:	12-12-91
FILE#:	AMI1212	DATE PREP:	12-20-91
DISK:	AMI1110		01-13/14-92
METHOD NO.	300.0	DATE ANALYZED:	12-23-91
ANALYST:	MT/CS		01-03/06-92
			01-13/14-92
		MATRIX:	SOIL
		DATE SAMPLED:	11-14/92

RESULTS: UNIT AS MG/KG DRY WEIGHT EXCEPT AS NOTED:

	LAB ID	F	CL	NO2	NO3	O-PO4	SO4
	2751 -1	1.59 J	31.9 * J	< 0.02 UJ	69.1 * J	< 0.5 UJ	59.4 J
	2751 -2	3.44	49.4 *	< 0.02	< 0.5 UJ	< 0.5 UJ	63.2 *
	2751 -3	3.24	84.2	< 0.02	532 J	< 0.5 UJ	107
	2751 -4	30.4	142	< 0.02 UJ	822	< 5 UJ	144
	2751 -5	4.08	99.0	0.35 J	498	1.78 J	92.1
	2751 -6	6.10	94.9	< 2 UJ	499	< 5 UJ	61.5
	2751 -7	3.13	3.74 J	< 2	19.5 J	< 5	14.7
	2751 -8	2.37	< 1 UJ	< 2	< 5 UJ	< 5	10.1
	2751 -9	5.90	3.23 J	< 2	19.2 J	< 5	13.4
	2751 -10	6.72	3.13	< 2	19.2	< 5	14.7
	2751 -11	3.78	3.98	< 2	19.6	< 5	13.9
	2751 -12	2.39	840	< 2	37.9	< 5	103
	2751 -13	1.99	891	< 2	56.0	< 5	268
	2751 -14	2.37	525	< 2	35.2	< 5	545
**	2751 -15	2.30	590	< 2	43.0	< 5	1060
	2751 -16	2.99	700	< 2	45.4	< 5	1304
**	2751 -17	1.95	565	< 2	39.0	< 5 UJ	745
	2751 -18	0.75	6.73	< 2 UJ	46.9	2.80 J	64.3
	2751 -19	0.50	13.4	0.23 J	106	2.94	116
	2751 -20	0.53	12.6	0.25 J	98.2	5.00	163
	2751 -21	0.66	13.3	0.36 J	87.6	8.44	190
	2751 -22	2.27	17.4	< 2 UJ	116	149	260
	2751 -23	3.48	27.7	< 2	123	128	407
**	2751 -24	1.95	15.9	< 2	128	8.90	311
**	2751 -25	5.25	11.5	< 2	82.3	10.7 J	94.1
	2751 -26	2.92	875	< 2	56.0	< 5 UJ	86.5 J
**	2751 -27	2.75	58.5	< 2 UJ	308	< 5 UJ	< 5 UJ
	2751 -28	2.87 J	57.1 J	0.85 J	298 J	< 5 UJ	< 5 UJ

COMMENTS:

* The concentration level is above detection limit. No samples re-analyzed due to insufficient amount of samples.

** The concentration of samples 2751-15, 17, 24, 25, and 27 are all reported as wet weight in MG/L, due to insufficient amount of sample for % Moisture Procedure.

2/13/92
mas

OSM INORGANIC DATA ASSESSMENT

DATE 2-26-92

REVIEWED BY Ted Washington

LABORATORY Maxwell-5-cubed

CASE # Site wide soil

SDG # 2751

SAMPLES/MATRIX

For sodium only

B01CK9	B01CL4	B01CL9	B01CN0
B01CL0	B01CL5	B01CM0	B01CN1
B01CL1	B01CL6	B01CM1	B01CN2
B01CL2	B01CL7	B01CM2	B01CN3
B01CL3	B01CL8	B01CM3	B01CN4
B01CM4	B01CM5	B01CM6	B01CN5
B01CM7	B01CM8	B01CM9	B01CN6

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O			
2. Blanks (III)	O			
3. ICS (IV)	O			
4. Matrix Spike (V)	O			
5. Duplicate Analysis (VI)	O			
6. LCS (VII)	O			
7. Serial Dilution (IX)	O			
8. GFAA				
9. Holding Times (XIV)	O			
10. Other QC	O			

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: DATA WAS ACCEPTABLE WITH ATTACHED QUALIFIERS. (nothing qualified)

NOTES: WHC #'s in lower left hand corner of Form I's.

o Refer to the corresponding attachments for explanation of any problems.

INORGANIC QC - Calibrations

Name Ted Washington Date 2-26-92

COMMENTS: All calibration requirements met for sodium.

ACTION: none - none required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Blanks

Name Ted Washington Date 2-26-92

COMMENTS: All blank requirements met, for sodium.

ACTION: None - none required
TW
2-26-92

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - ICS

Name J. L. Washington Date 2-26-92

COMMENTS: All ICS requirements met for sodium.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Matrix Spike

Name Ted Washington Date 2-26-92

COMMENTS: All matrix spike requirements met for sodium.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Duplicate Analysis

Name Ted Washington Date 2-26-92

COMMENTS: All requirements met for duplicate analysis of sodium.

ACTION: None no action required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - LCS

Name Ted Washington Date 2-26-92

COMMENTS: All requirements with LCS for sodium.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Serial Dilution

Name Ted Washington Date 2-26-92

COMMENTS: ALL SERIAL DILUTION REQUIREMENTS MET FOR SODIUM.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Holding Times

Name Ted Washington Date 2-26-92

COMMENTS: All Holding Time requirements met for sodium.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - other

Name Ted Washington Date 2-26-92

COMMENTS: OVERALL Q.C. ACCEPTABLE.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

all soils B01CK9 B01CL0 B01C B01CL2 B01CL3 B01CL4 B01CL5 B01CL6 B01CL B01CL8 B01CL9 ~~B01C~~

OSM INORGANIC DATA ASSESSMENT

DATE 2/14/92 mab

REVIEWED BY Mark C. Beck

LABORATORY Maxwell-S-Cubed

CASE # Site Wide Soil

SDG # 2751

SAMPLES/MATRIX B01CM0 ~~B01CM1~~ B01CM2 B01CM3 B01CM4 B01CM5 B01CM6 B01CM7 B01CM8 B01CM B01CN0 B01CN1 B01CN2 ~~B01C~~ B01CN3 B01CN4 B01CN6 B01CN5

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)			M	
2. Blanks (III)	O	O	O	
3. ICS (IV)	O			
4. Matrix Spike (V)	M	X	O	
5. Duplicate Analysis (VI)	M	X	O	
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	O			
8. GFAA		X		
9. Holding Times (XIV)	O	O	X mab	
10. Other QC	O	O	O	

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: Mercury results rejected, as was antimony. All other data acceptable with attached qualifications.

NOTES: ICP metals includes CLP-metals + Mo, Ti, Zr. WHC sample numbers can be found in the lower left hand corner of the Form I's.

o Refer to the corresponding attachments for explanation of any problems.

INORGANIC QC - Calibrations

Name Mark A. Beck Date 2/14/92 MAB.

COMMENTS: Mercury had (3) three standards run, instead of the required (4) four standards for initial (set-up) calibration. All other analytes had adequate set-up calibration performed. All ICV and CCV had acceptable recoveries (all analytes).

ACTION: All mercury results ~~qualified~~ rejected (R), because of inadequate set-up calibration

sample #	constituent	value/qual	sample #	constituent	value/qual
all	mercury Hg	R			

INORGANIC QC - Blanks

Name Mark A. Beck Date 2/14/92 MAB

COMMENTS: Lead was found in significant ~~neve~~ negative amounts in the first prep blank. Aluminum was found in amounts slightly greater than the IDL in two CCB (continuing calibration blanks).

ACTION: Qualify all aluminum ~~and lead~~ results <5X the highest blank value as ~~estimated undet~~ estimated. All non detect lead results shall be qualified as estimated (UJ). All aluminum values ~~are~~ 75X blank values so no qualification results. All lead values are greater than the IDL so no qualification results

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - ICS

Name Mark A. Beck Date 2/14/92 MAB

COMMENTS: An ICS was run at the beginning and end of the analysis run, the ICS were run within 8 hours of each other. All AB solution recoveries were within control limits.

ACTION: none - none needed

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Matrix Spike

Name Mark O. Beck Date 2/14/92 MOB.

COMMENTS: As this SDG is larger than 20 samples two (2) matrix spikes were run for each analyte as is appropriate. As ICP metals were done in one run, ~~any~~ either of the spike can cause qualification of results for ICP. Antimony spike recovery was low, manganese was very low. Silver selenium, thallium, and manganese spikes, along with chromium spikes, were very high.

ACTION: Qualify all ~~silver~~ antimony results less than the IDL as ~~(UJ)~~ R estimated, all ~~silver~~ antimony results > IDL as J. All manganese results qualified as J. No qualification of results ~~greater than~~ less than the IDL is necessary for silver, selenium, chromium, thallium. For results for Ag, Se, and Tl, greater than the IDL the qualification J applies.

sample #	constituent	value/qual
all	manganese	J
all	antimony	R
B01CL7	silver	J
B01CL8		
B01CL9		
B01CM6		
B01CM7		
B01CM8		
B01CN0		
B01CN1		
B01CN2		
B01CN3		
B01CN6		

sample #	constituent	value/qual
B01CN4	selenium	J
all	chromium	J

INORGANIC QC - Duplicate Analysis

Name Mark C. Beck Date 2/14/92 MCB

COMMENTS: Manganese, arsenic, aluminum, chromium iron, lead, magnesium, vanadium and ~~zinc~~ zinc all had high RPD (Relative Percent Differences). manganese also had a high RPD.

ACTION: Qualify all out of control analytes listed above as estimated (UJ or J).

sample #	constituent	value/qual
B01CL5	arsenic	UJ
B01CL9		
B01CM7		
B01CM8		
B01CM9		
B01CN1		
B01CN2		
B01CN6		
all other arsenic	Arsenic	J

sample #	constituent	value/qual
all	manganese	
	aluminum	J
	chromium	
	iron	
	lead	
	magnesium	
	vanadium	
	zinc	

INORGANIC QC - LCS

Name Mark A. Beck Date 2/14/92 m94

COMMENTS: Only one LCS was run for ~~as~~ arsenic selenium and silver, all other analyte had 2 (two) ~~analyte~~ LCS run for this SDG. All LCS % recoveries were within control limits. Only an aqueous LCS was run. Considering the problems this SDG has encountered with matrix and duplicate QC measures, a good solid matrix LCS would help bolster the validity of the data, as one was not run this SDG ~~is~~ noted to have severe matrix-related problems

ACTION: none - except the above note.

sample #	constituent	value/qual	sample #	constituent	value/qual
see above note					

INORGANIC QC - Serial Dilution

Name Mark G. Beck Date 2/14/92 mgb

COMMENTS: no initial sample concentration was < 10X the IDL so no control limits apply.

ACTION: none - none required

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - GFAA

Name Mark A. Beck Date 2/14/92 m94

COMMENTS: % RSD was out of control for arsenic sample B01CL8. all other arsenic samples met % RSD and spike recovery criteria. B01CK9 had an out-of-control spike recovery for thallium, the recovery of which was high. The thallium analytical spikes ~~where~~ were high for a number of samples. For samples in the later runs thallium recovery for spike ranges out of control high and low.

ACTION: All high spike with initial sample results ~~free from qualification~~ if less than the IDL are free from qualification. All low spike recovery samples qualified UJ or J (estimated).

sample #	constituent	value/qual	sample #	constituent	value/qual
B01CL8	arsenic	J			
~~B01CK9~~ all B01CK9 thru B01CM6 except B01CM5 B01CM6	thallium	~~J~~ no qualifier all results < IDL			
B01CM7 B01CM9	thallium	UJ low recovery			

INORGANIC QC - GFAA

Name Mark A. Beck Date 2/14/92 m.4

COMMENTS: The first two Se analysis runs had low spike recoveries for all samples in those runs. Other ~~sa~~ scattered samples also had low analytical (post ~~digest~~ digest spike) recoveries.
Lead, usually a GFAA metal, was done by ICP.

ACTION: Qualify all samples with low analytical spike recoveries as estimated.

sample #	constituent	value/qual
B01CK9	Se	UJ
B01CL0	Selenium	
B01CL1		
B01CL2		
B01CL3		
B01CL4		
B01CL5		
B01CL6		
B01CL7		
B01CL8		
B01CM4		
B01CM9		
B01CN0		
B01CN3		
B01CN4	selenium	J

sample #	constituent	value/qual

8B

INORGANIC QC - Holding Times

Name Mark A. Beck Date 2/14/92 MAB

COMMENTS: Holding times were missed for mercury. As these samples are from a grain size study, the samples may in fact be older than the date on the chain of custody (CoC). The CoC date may indicate sieving or other sample prep dates. However other metals are unlikely to be affected by long holding times, as the samples were dry soils.

ACTION: Qualify all mercury results as estimated. If not qualified R (rejected) previously.

sample #	constituent	value/qual	sample #	constituent	value/qual
no Hg rejected.					

INORGANIC QC - other

Name Mark A. Beck Date 2/14/92 m.4B

COMMENTS: Sodium was not run nor reported. BOICN5 selenium, thallium not reported, nor was arsenic. No raw arsenic data shown for BOICN5, reason thallium is unclear.

ACTION: none - except above note

sample #	constituent	value/qual	sample #	constituent	value/qual

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-1

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-1

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	5.5		J	F
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	9130			P
7440-47-3	Chromium	17.5		~~N*~~ J	P
7440-48-4	Cobalt	8.2			P
7440-50-8	Copper	32.8			P
7439-89-6	Iron	18800		J	P
7439-92-1	Lead	13.6		J*	P
7439-95-4	Magnesium	5840		J	P
7439-96-5	Manganese	382		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	15.7			P
7440-09-7	Potassium	2260			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	~~N~~ UJ	F
7440-62-2	Vanadium	34.0		J	P
7440-66-6	Zinc	48.4		J	P

no qualifier mark

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CK9

FORM I - IN

2/14/92 MDB

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-1

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-1

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	909			P
7440-67-7	Zirconium	10.0	U		P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
B01CK9

FORM I - IN

2/14/92
mag.

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-2

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-2

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14100		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	7.9		J	F
7440-39-3	Barium	193			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	12000			P
7440-47-3	Chromium	22.8		~~N*~~ J	P
7440-48-4	Cobalt	12.8			P
7440-50-8	Copper	39.6			P
7439-89-6	Iron	27100		J	P
7439-92-1	Lead	22.2		J*	P
7439-95-4	Magnesium	7880		J	P
7439-96-5	Manganese	590		*J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	20.9			P
7440-09-7	Potassium	3380			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	~~N~~ UJ	F
7440-62-2	Vanadium	47.3		J	P
7440-66-6	Zinc	68.9		J	P

no qualifier MAY

Color Before: _____ Clarity Before: _____ Texture: FINE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
B01CL0

FORM I - IN 7/88

2/14/92 MAY

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-2

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-2

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1200			P
7440-67-7	Zirconium	14.3			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
B01CL0

FORM I - IN

7/88

2/4/92 mab

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-3

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-3

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11800		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	7.2		J	F
7440-39-3	Barium	159			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11400			P
7440-47-3	Chromium	19.1		~~N*~~ J	P
7440-48-4	Cobalt	11.0			P
7440-50-8	Copper	39.2			P
7439-89-6	Iron	23000		J	P
7439-92-1	Lead	21.5		J *	P
7439-95-4	Magnesium	7010		J	P
7439-96-5	Manganese	495		~~*~~ J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	19.6			P
7440-09-7	Potassium	2740			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	38.3		J	P
7440-66-6	Zinc	60.9		J	P

Color Before: _____ Clarity Before: _____ Texture: FINE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
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FORM I - IN

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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-3

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-3

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	925			P
7440-67-7	Zirconium	12.5			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

2/14/92 7/88
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-4

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-4

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	6.6		J	F
7440-39-3	Barium	97.5			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	17.8		~~N*~~ J	P
7440-48-4	Cobalt	9.1			P
7440-50-8	Copper	41.3			P
7439-89-6	Iron	20600		J	P
7439-92-1	Lead	19.4		J*	P
7439-95-4	Magnesium	5860		J	P
7439-96-5	Manganese	379		*J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	2000			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	35.6		J	P
7440-66-6	Zinc	50.9		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-4

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-4

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	818			P
7440-67-7	Zirconium	13.6			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-5

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-5

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	9.9		J	F
7440-39-3	Barium	94.4			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	18.7		~~N*~~ J	P
7440-48-4	Cobalt	10.3			P
7440-50-8	Copper	79.8			P
7439-89-6	Iron	24200		J	P
7439-92-1	Lead	34.2		J*	P
7439-95-4	Magnesium	6580		J	P
7439-96-5	Manganese	435		~~*~~ J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	17.8			P
7440-09-7	Potassium	2020			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	41.6		J	P
7440-66-6	Zinc	64.9		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-5

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-5

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	874			P
7440-67-7	Zirconium	17.2			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-6

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-6

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	7.5		J	F
7440-39-3	Barium	119			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	17.3		~~N*~~ J	P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	24.1			P
7439-89-6	Iron	21400		J	P
7439-92-1	Lead	15.0		J*	P
7439-95-4	Magnesium	6350		J	P
7439-96-5	Manganese	437		*J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	17.1			P
7440-09-7	Potassium	2220			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	35.1		J	P
7440-66-6	Zinc	52.9		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92 014

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-6

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-6

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	766			P
7440-67-7	Zirconium	11.9			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-7

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-7

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4190		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	~~*~~ UJ	F
7440-39-3	Barium	59.8			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5670			P
7440-47-3	Chromium	4.5		~~N*~~ J	P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	15.2			P
7439-89-6	Iron	24000		J	P
7439-92-1	Lead	3.5		J ~~*~~	P
7439-95-4	Magnesium	2860		J	P
7439-96-5	Manganese	282		~~*~~ J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	6.8			P
7440-09-7	Potassium	817			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	61.3		J	P
7440-66-6	Zinc	39.5		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92 016

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-7

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-7

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	2000			P
7440-67-7	Zirconium	25.7			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-8

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-8

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5340		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ K	P
7440-38-2	Arsenic	1.3	~~B~~	J	F
7440-39-3	Barium	60.7			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7700			P
7440-47-3	Chromium	3.3		~~N*~~ J	P
7440-48-4	Cobalt	14.8			P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	32800		J	P
7439-92-1	Lead	8.2		J*	P
7439-95-4	Magnesium	3550		J	P
7439-96-5	Manganese	364		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	7.0			P
7440-09-7	Potassium	732			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	97.6		J	P
7440-66-6	Zinc	53.7		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-8

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-8

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3080			P
7440-67-7	Zirconium	36.5			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-9

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-9

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4130		J	P
7440-36-0	Antimony	7.4	U	N R	P
7440-38-2	Arsenic	1.8	B	J	F
7440-39-3	Barium	57.0			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	6270			P
7440-47-3	Chromium	2.3		N* J	P
7440-48-4	Cobalt	13.5			P
7440-50-8	Copper	16.5			P
7439-89-6	Iron	28300		J	P
7439-92-1	Lead	5.0		J*	P
7439-95-4	Magnesium	2730		J	P
7439-96-5	Manganese	361		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	6.2			P
7440-09-7	Potassium	566			P
7782-49-2	Selenium	1.2	U	N UJ	F
7440-22-4	Silver	1.4		N J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	91.8		J	P
7440-66-6	Zinc	43.2		J	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-9

Lab Name: S_CUBED_____ Contract: 32359-04__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2751__

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-9____

Level (low/med): LOW__ Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3220			P
7440-67-7	Zirconium	32.5			P

Color Before: _____ Clarity Before: _____ Texture: MEDIUM

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-10

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-10

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6030		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	1.1	B	J	F
7440-39-3	Barium	118			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7130			P
7440-47-3	Chromium	5.4		~~N*~~ J	P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	18.9			P
7439-89-6	Iron	34900		J	P
7439-92-1	Lead	7.3		J*	P
7439-95-4	Magnesium	3560		J	P
7439-96-5	Manganese	502		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	880			P
7782-49-2	Selenium	1.2	U	~~N~~ UJ	F
7440-22-4	Silver	1.2		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	122		J	P
7440-66-6	Zinc	52.8		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-10

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-10

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3600			P
7440-67-7	Zirconium	34.4			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-11

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-11

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4620		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N*J~~	P
7440-38-2	Arsenic	0.90	U	*-UJ	F
7440-39-3	Barium	67.0			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7240			P
7440-47-3	Chromium	2.8		~~N*J~~	P
7440-48-4	Cobalt	13.8			P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	30400		J	P
7439-92-1	Lead	7.4		J*	P
7439-95-4	Magnesium	2850		J	P
7439-96-5	Manganese	384		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	5.6			P
7440-09-7	Potassium	554			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.2		~~N J~~	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	95.7		J	P
7440-66-6	Zinc	47.7		J	P

Color Before: _____ Clarity Before: _____ Texture: COARSE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-11

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-11

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3240			P
7440-67-7	Zirconium	32.1			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
B01CL9

FORM I - IN

7/88

2/14/92

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-12

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-12

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7060		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	2.5	B	J	F
7440-39-3	Barium	294			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7720			P
7440-47-3	Chromium	6.5		~~N*~~ J	P
7440-48-4	Cobalt	15.4			P
7440-50-8	Copper	20.9			P
7439-89-6	Iron	28300		J	P
7439-92-1	Lead	11.0		J*	P
7439-95-4	Magnesium	4440		J	P
7439-96-5	Manganese	1280		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	926			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	67.1		J	P
7440-66-6	Zinc	52.4		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92 MAB

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-12

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-12

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1800			P
7440-67-7	Zirconium	30.2			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-13

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-13

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	6.9		J	F
7440-39-3	Barium	146			P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10000			P
7440-47-3	Chromium	12.6		~~N*~~ J	P
7440-48-4	Cobalt	13.6			P
7440-50-8	Copper	23.8			P
7439-89-6	Iron	33900		J	P
7439-92-1	Lead	15.7		J*	P
7439-95-4	Magnesium	5930		J	P
7439-96-5	Manganese	665		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	13.5			P
7440-09-7	Potassium	1770			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	76.2		J	P
7440-66-6	Zinc	62.3		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:

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FORM I - IN

7/88

2/14/92 MAB

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-13

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-13

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1600			P
7440-67-7	Zirconium	31.9			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-14

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-14

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6640		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	4.2		J	F
7440-39-3	Barium	119			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4490			P
7440-47-3	Chromium	9.4		~~N*~~ J	P
7440-48-4	Cobalt	7.5			P
7440-50-8	Copper	19.0			P
7439-89-6	Iron	14800		J	P
7439-92-1	Lead	6.9		J*	P
7439-95-4	Magnesium	3340		J	P
7439-96-5	Manganese	296		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.5			P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	32.5		J	P
7440-66-6	Zinc	33.3		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-14

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-14

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	776			P
7440-67-7	Zirconium	14.6			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-15

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-15

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10300		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	J	F
7440-39-3	Barium	256			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10000			P
7440-47-3	Chromium	15.7		~~N*~~ J	P
7440-48-4	Cobalt	11.0			P
7440-50-8	Copper	33.8			P
7439-89-6	Iron	23200		J	P
7439-92-1	Lead	13.6		J*	P
7439-95-4	Magnesium	5780		J	P
7439-96-5	Manganese	444		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	2120			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	47.5		J	P
7440-66-6	Zinc	52.4		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-15

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-15

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	998			P
7440-67-7	Zirconium	22.7			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-16

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-16

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6630		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	3.5		J	F
7440-39-3	Barium	127			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	7.6		~~N*~~ J	P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	18.7			P
7439-89-6	Iron	22800		J	P
7439-92-1	Lead	6.9		J*	P
7439-95-4	Magnesium	3950		J	P
7439-96-5	Manganese	367		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	8.8			P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	2.0	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	51.1		J	P
7440-66-6	Zinc	45.0		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-16

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-16

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1390			P
7440-67-7	Zirconium	25.2			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-17

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-17

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100		J	P
7440-36-0	Antimony	7.4	U	N K	P
7440-38-2	Arsenic	0.98	B	J	F
7440-39-3	Barium	214			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7810			P
7440-47-3	Chromium	15.1		N* J	P
7440-48-4	Cobalt	10.4			P
7440-50-8	Copper	33.1			P
7439-89-6	Iron	22000		J	P
7439-92-1	Lead	11.9		J*	P
7439-95-4	Magnesium	5090		J	P
7439-96-5	Manganese	459		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	12.4			P
7440-09-7	Potassium	2060			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	48.7		J	P
7440-66-6	Zinc	49.5		J	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN 7/88

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-17

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-17

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	1100			P
7440-67-7	Zirconium	21.6			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

2/14/92 7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-18

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-18

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2240		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	J	F
7440-39-3	Barium	33.7			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4420			P
7440-47-3	Chromium	3.0		~~N*~~ J	P
7440-48-4	Cobalt	19.2			P
7440-50-8	Copper	21.3			P
7439-89-6	Iron	33500		J	P
7439-92-1	Lead	6.4		J*	P
7439-95-4	Magnesium	541		J	P
7439-96-5	Manganese	263		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	952			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	2.0		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	161		J	P
7440-66-6	Zinc	53.8		J	P

Color Before: _____ Clarity Before: _____ Texture: COARSE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-18

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-18

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7020			P
7440-67-7	Zirconium	34.4			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-19

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-19

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2460		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	UJ	F
7440-39-3	Barium	37.0			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4470			P
7440-47-3	Chromium	2.5		~~N*~~ J	P
7440-48-4	Cobalt	14.7			P
7440-50-8	Copper	45.4			P
7439-89-6	Iron	25800		J	P
7439-92-1	Lead	8.6		J+	P
7439-95-4	Magnesium	500		J	P
7439-96-5	Manganese	202		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1160			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.2		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	124		J	P
7440-66-6	Zinc	43.5		J	P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-19

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-19

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	5540			P
7440-67-7	Zirconium	30.8			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-20

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-20

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3140		J	P
7440-36-0	Antimony	7.4	U	~~N~~	P
7440-38-2	Arsenic	0.90	U	~~N~~ J	F
7440-39-3	Barium	40.5			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4760			P
7440-47-3	Chromium	3.8		~~N*~~ J	P
7440-48-4	Cobalt	19.2			P
7440-50-8	Copper	51.2			P
7439-89-6	Iron	32000		J	P
7439-92-1	Lead	27.1		J*	P
7439-95-4	Magnesium	612		J	P
7439-96-5	Manganese	260		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1350			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.4		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	166		J	P
7440-66-6	Zinc	55.7		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-20

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-20

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	6830			P
7440-67-7	Zirconium	36.8			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-21

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-21

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4380		J	P
7440-36-0	Antimony	7.4	U	N R	P
7440-38-2	Arsenic	0.90	U	* UJ	F
7440-39-3	Barium	53.5			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5490			P
7440-47-3	Chromium	6.1		N* J	P
7440-48-4	Cobalt	21.1			P
7440-50-8	Copper	73.0			P
7439-89-6	Iron	35400		J	P
7439-92-1	Lead	14.9		J*	P
7439-95-4	Magnesium	815		J	P
7439-96-5	Manganese	308		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.5			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1590			P
7782-49-2	Selenium	1.2	U	N UJ	F
7440-22-4	Silver	2.6		N J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	177		J	P
7440-66-6	Zinc	63.9		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN 7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-21

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-21

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7530			P
7440-67-7	Zirconium	40.2			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-22

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-22

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5100		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	~~*~~ UJ	F
7440-39-3	Barium	58.2			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5660			P
7440-47-3	Chromium	9.5		~~N*~~ J	P
7440-48-4	Cobalt	27.6			P
7440-50-8	Copper	183			P
7439-89-6	Iron	44400		J	P
7439-92-1	Lead	29.4		J*	P
7439-95-4	Magnesium	1040		J	P
7439-96-5	Manganese	392		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	2.1			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	3.9		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	244		J	P
7440-66-6	Zinc	106		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:

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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-22

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-22

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	9910			P
7440-67-7	Zirconium	48.1			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-23

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-23

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6160		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	~~*~~ UJ	F
7440-39-3	Barium	71.7			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	6670			P
7440-47-3	Chromium	11.2		~~N*~~ J	P
7440-48-4	Cobalt	30.3			P
7440-50-8	Copper	326			P
7439-89-6	Iron	43300		J	P
7439-92-1	Lead	30.7		J*	P
7439-95-4	Magnesium	1210		J	P
7439-96-5	Manganese	401		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.8			P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1950			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	3.5		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	237		J	P
7440-66-6	Zinc	140		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-23

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-23

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	9550			P
7440-67-7	Zirconium	48.0			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

2/14/92 mab

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-24

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-24

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3490		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ K	P
7440-38-2	Arsenic	0.90	U	*UJ	F
7440-39-3	Barium	41.4			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	5250			P
7440-47-3	Chromium	6.5		~~N*~~ J	P
7440-48-4	Cobalt	23.2			P
7440-50-8	Copper	378			P
7439-89-6	Iron	34200		J	P
7439-92-1	Lead	42.1		J *	P
7439-95-4	Magnesium	797		J	P
7439-96-5	Manganese	298		J	P
7439-97-6	Mercury	0.15	~~U~~	K	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1450			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	2.6		~~N~~	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	178		J	P
7440-66-6	Zinc	136		J	P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-24

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-24

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7240			P
7440-67-7	Zirconium	36.0			P

Color Before: Clarity Before: Texture: FINE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-25

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-25

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3040		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	J	F
7440-39-3	Barium	37.6			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	4850			P
7440-47-3	Chromium	5.2		~~N*~~ J	P
7440-48-4	Cobalt	23.5			P
7440-50-8	Copper	51.9			P
7439-89-6	Iron	35100		J	P
7439-92-1	Lead	10.0		J+	P
7439-95-4	Magnesium	690		J	P
7439-96-5	Manganese	292		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	1.2	~~U~~	~~N~~ UJ	F
7440-22-4	Silver	2.9		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	187		J	P
7440-66-6	Zinc	64.6		J	P

Color Before: _____ Clarity Before: _____ Texture: MEDIUM

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-25

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-25

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	7770			P
7440-67-7	Zirconium	35.9			P

Color Before: Clarity Before: Texture: MEDIUM

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-26

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-26

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000		J	P
7440-36-0	Antimony	7.4	~~U~~	~~N~~ R	P
7440-38-2	Arsenic	2.2	B	J	F
7440-39-3	Barium	95.8			P
7440-41-7	Beryllium	1.8			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	21100			P
7440-47-3	Chromium	9.2		~~N*~~ J	P
7440-48-4	Cobalt	12.2			P
7440-50-8	Copper	20.2			P
7439-89-6	Iron	32400		J	P
7439-92-1	Lead	12.5		N*	P
7439-95-4	Magnesium	6130		J	P
7439-96-5	Manganese	308		J	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	12.9			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	1.3	B	~~N~~ J	F
7440-22-4	Silver	1.0	U	N	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	51.5		J	P
7440-66-6	Zinc	60.2		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-26

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-26

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	970			P
7440-67-7	Zirconium	29.5			P

Color Before: _____ Clarity Before: _____ Texture: COARSE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
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FORM I - IN

7/88

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-27

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-27

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7950		J	P
7440-36-0	Antimony	9.6	~~U~~	~~N~~ R	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	92.2			P
7440-41-7	Beryllium	0.78			P
7440-43-9	Cadmium	0.39	U		P
7440-70-2	Calcium	8120			P
7440-47-3	Chromium	15.7		~~N*~~ J	P
7440-48-4	Cobalt	8.3			P
7440-50-8	Copper	22.6			P
7439-89-6	Iron	18200		J	P
7439-92-1	Lead	10.6		J*	P
7439-95-4	Magnesium	6270		J	P
7439-96-5	Manganese	355		J*	P
7439-97-6	Mercury	0.15	~~U~~	R	CV
7439-98-7	Molybdenu	1.8	U		P
7440-02-0	Nickel	17.3			P
7440-09-7	Potassium	2350			P
7782-49-2	Selenium			J	NR
7440-22-4	Silver	1.3	U	N	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	33.6		J	P
7440-66-6	Zinc	46.4		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-27

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-27

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	981			P
7440-67-7	Zirconium	13.0	U		P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

2/14/92

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-28

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL Lab Sample ID: 2751-28

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1550		J	P
7440-36-0	Antimony	7.4	U	~~N~~ R	P
7440-38-2	Arsenic	0.90	U	*W	F
7440-39-3	Barium	18.4	B		P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	3910			P
7440-47-3	Chromium	1.7		~~N*~~ J	P
7440-48-4	Cobalt	10.4			P
7440-50-8	Copper	16.1			P
7439-89-6	Iron	17400		J	P
7439-92-1	Lead	10.6		J*	P
7439-95-4	Magnesium	379	B	J	P
7439-96-5	Manganese	133		J	P
7439-97-6	Mercury	0.15	U	R	CV
7439-98-7	Molybdenu	1.4	U		P
7440-02-0	Nickel	3.2	U		P
7440-09-7	Potassium	721			P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.7		~~N~~ J	P
7440-28-0	Thallium	0.90	U	N	F
7440-62-2	Vanadium	78.1		J	P
7440-66-6	Zinc	27.8		J	P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2751-28

Lab Name: S_CUBED Contract: 32359-04

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2751

Matrix (soil/water): SOIL_ Lab Sample ID: 2751-28

Level (low/med): LOW Date Received: 12/12/91

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-32-6	Titanium	3360			P
7440-67-7	Zirconium	20.6			P

Color Before: Clarity Before: Texture: COARSE

Color After: Clarity After: Artifacts:

Comments:
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FORM I - IN

7/88

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