CT&E Environmental Services Inc.

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1200 Conrad Industrial Drive
Ludington, MI 49431
Tel: 616-843-1877
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1999
RECEIVED

August 18, 1999

John Young
NMED-HRMB
2044 Galisteo Street
Santa Fe, NM 87505

RE: Bayo Canyon Sampling

Dear Mr. Young:

Enclosed are the analytical results associated with the above project.

Except as specifically noted, all statements and data in this report are in conformance to the QA/QC set forth in the referenced method.

If you have any questions regarding this report or if we can be of any other assistance, please call your CT&E Project Manager at (616) - 843-1877.

Sincerely,

Jason Asher
Project Manager
CT&E Environmental Services, Inc.

Enclosure

7088

CT&E Environmental Services Inc.

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Project Name: Bayo Canyon Sampling
Project Number: n/a
CT&E MI Laboratory ID: 3990464

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CT&E Environmental Services Inc.

LABORATORY NARRATIVE

Project Name: Bayo Canyon Sampling
Project Number: n/a
CT&E MI Laboratory ID: 3990464

Sample Receipt:

The samples were received at CT&E Laboratory without incident via Federal Express Next Day. Standard Chain of custody procedures were followed. Samples were collected in preserved sample containers, where appropriate, supplied by the client. Following log-in, the samples were stored at 4 degree C, where required, per SW-846 protocol until sample preparation or analysis.

1. Samples that required radiological analysis were forwarded to CORE Labs for analysis.
2. Samples that required high explosive analysis were forwarded to Evergreen Laboratories for analysis.

Sample Analysis:

No problems or anomalies were encountered during the analysis.

If you have any questions regarding this or any other analysis please feel free to call me at 616-843-1877.

Jason A. Asher
Project Manager

8/18/99
Date

CT&E Environmental Services Inc.

CT&E MI LABORATORY REPORT

CT&E Environmental Services Inc.

Michigan Division
Analytical Report

Work Order:	**3990464** **Bayo Canyon Sampling**
Report Date:	**8/18/1999**
Project:	**Bayo Canyon Sampling**
Client:	**NMED-HRMB** **2044A Galisteo** **Sante Fe, NM 87505**
Attention:	**Mr. John Young**

Michigan Division
1200 Conrad Industrial Drive
Ludington, MI 49431

616-843-1877 - Phone
616-845-9942 - Fax

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464001	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-01	**Location:**	Bayo Canyon
Collected:	6/24/99 8:50:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	1200	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Antimony	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	7/13/99 0:03	JAC
Arsenic	ND D,M	mg/Kg	10	SW846-6010	6/30/99 11:41	7/18/99 19:28	JAC
Barium	30	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Beryllium	0.70	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Cadmium	0.70	mg/Kg	0.1	SW846-6010	6/30/99 11:41	7/13/99 0:03	JAC
Calcium	600	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Chromium	2.8	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Cobalt	1.5	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Copper	3.5	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Iron	2000	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Lead	7.7	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Magnesium	360	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Manganese	130	mg/Kg	0.3	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Mercury	ND	mg/Kg	0.022	SW846-7471	7/9/99 14:42	7/9/99 16:25	SM
Nickel	3.0	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Potassium	420	mg/Kg	50	SW846-7610	6/30/99 11:38	7/15/99 16:26	SM
Selenium	ND D,M	mg/Kg	20	SW846-6010	6/30/99 11:41	7/18/99 19:28	JAC
Silver	ND D,M	mg/Kg	0.5	SW846-6010	6/30/99 11:41	7/18/99 19:28	JAC
Sodium	140	mg/Kg	50	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Thallium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Vanadium	3.1	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
Zinc	22	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 15:50	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.2	SW-846 9014	7/9/99 6:21	7/10/99 11:54	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464002	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-02	**Location:**	Bayo Canyon
Collected:	6/24/99 9:20:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	1500	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Antimony	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Arsenic	ND D,M	mg/Kg	10	SW846-6010	6/30/99 11:41	7/18/99 19:33	JAC
Barium	33	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Beryllium	0.47	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Cadmium	ND	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Calcium	770	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Chromium	2.5	mg/Kg	3	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Cobalt	1.3	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Copper	3.6	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Iron	2400	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Lead	8.7	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Magnesium	370	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Manganese	170	mg/Kg	0.3	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Mercury	ND	mg/Kg	0.023	SW846-7471	7/9/99 14:43	7/9/99 16:28	SM
Nickel	2.7	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Potassium	480	mg/Kg	50	SW846-7610	6/30/99 11:38	7/15/99 16:26	SM
Selenium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Silver	ND D,M	mg/Kg	0.5	SW846-6010	6/30/99 11:41	7/18/99 19:33	JAC
Sodium	150	mg/Kg	50	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Thallium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Vanadium	3.3	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
Zinc	13	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:12	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.2	SW-846 9014	7/9/99 6:21	7/10/99 11:55	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464003	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-03	**Location:**	Bayo Canyon
Collected:	6/24/99 9:40:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	910	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Antimony	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	7/13/99 0:14	JAC
Arsenic	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Barium	20	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Beryllium	0.34	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Cadmium	ND D,M	mg/Kg	1	SW846-6010	6/30/99 11:41	7/18/99 19:38	JAC
Calcium	410	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Chromium	ND	mg/Kg	3	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Cobalt	0.70	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Copper	8.4	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Iron	1500	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Lead	5.7	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Magnesium	200	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Manganese	120	mg/Kg	0.3	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Mercury	ND	mg/Kg	0.022	SW846-7471	7/9/99 14:43	7/9/99 16:28	SM
Nickel	2.0	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Potassium	340	mg/Kg	50	SW846-7610	6/30/99 11:38	7/15/99 16:27	SM
Selenium	ND D,M	mg/Kg	20	SW846-6010	6/30/99 11:41	7/18/99 19:38	JAC
Silver	ND D,M	mg/Kg	0.5	SW846-6010	6/30/99 11:41	7/18/99 19:38	JAC
Sodium	120	mg/Kg	50	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Thallium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Vanadium	2.1	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
Zinc	7.3	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:18	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.2	SW-846 9014	7/9/99 6:21	7/10/99 11:56	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464004	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-04	**Location:**	Bayo Canyon
Collected:	6/24/99 9:45:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	1600	mg/Kg	8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Antimony	ND	mg/Kg	0.8	SW846-6010	6/30/99 11:41	7/13/99 0:20	JAC
Arsenic	ND	mg/Kg	0.8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Barium	37	mg/Kg	0.4	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Beryllium	0.42	mg/Kg	0.08	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Cadmium	0.28	mg/Kg	0.08	SW846-6010	6/30/99 11:41	7/13/99 0:20	JAC
Calcium	840	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Chromium	2.1	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Cobalt	1.4	mg/Kg	0.08	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Copper	2.6	mg/Kg	0.8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Iron	2600	mg/Kg	8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Lead	7.0	mg/Kg	0.4	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Magnesium	420	mg/Kg	0.8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Manganese	170	mg/Kg	0.2	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Mercury	ND	mg/Kg	0.021	SW846-7471	7/9/99 14:43	7/9/99 16:29	SM
Nickel	2.2	mg/Kg	0.4	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Potassium	500	mg/Kg	40	SW846-7610	6/30/99 11:38	7/15/99 16:27	SM
Selenium	ND D,M	mg/Kg	20	SW846-6010	6/30/99 11:41	7/18/99 19:43	JAC
Silver	0.066	mg/Kg	0.04	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Sodium	140	mg/Kg	40	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Thallium	ND D,M	mg/Kg	20	SW846-6010	6/30/99 11:41	7/18/99 19:43	JAC
Vanadium	3.4	mg/Kg	0.8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
Zinc	12	mg/Kg	0.8	SW846-6010	6/30/99 11:41	6/30/99 16:24	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.2	SW-846 9014	7/9/99 6:21	7/10/99 11:57	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464005	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-05	**Location:**	Bayo Canyon
Collected:	6/24/99 10:55:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	1100	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Antimony	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	7/13/99 0:25	JAC
Arsenic	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	7/13/99 0:25	JAC
Barium	21	mg/Kg	0.6	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Beryllium	0.93	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Cadmium	0.92	mg/Kg	0.1	SW846-6010	6/30/99 11:41	7/13/99 0:25	JAC
Calcium	550	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Chromium	2.6	mg/Kg	3	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Cobalt	1.5	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Copper	3.4	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Iron	1600	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Lead	6.7	mg/Kg	0.6	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Magnesium	260	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Manganese	110	mg/Kg	0.3	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Mercury	ND	mg/Kg	0.026	SW846-7471	7/9/99 14:43	7/9/99 16:29	SM
Nickel	2.6	mg/Kg	0.6	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Potassium	370	mg/Kg	60	SW846-7610	6/30/99 11:38	7/15/99 16:27	SM
Selenium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Silver	ND D,M	mg/Kg	0.6	SW846-6010	6/30/99 11:41	7/18/99 19:52	JAC
Sodium	180	mg/Kg	60	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Thallium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Vanadium	2.5	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
Zinc	20	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:29	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.3	SW-846 9014	7/9/99 6:21	7/10/99 12:02	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

NMED-HRMB

Sample ID:	3990464006	**Matrix:**	Solid
Client Sample ID:	10-Bayo-6-99-06	**Location:**	Bayo Canyon
Collected:	6/24/99 11:05:00AM	**Project:**	Bayo Canyon Sampling
Received:	7/5/99 3:28:04PM	**Sampled By:**	jy, ef

Test Description	Result	Unit	Reporting Detection Limit	Method	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS							
Aluminum	1100	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Antimony	ND	mg/Kg	10	SW846-6010	6/30/99 11:41	7/13/99 0:31	JAC
Arsenic	ND	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Barium	20	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Beryllium	0.51	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Cadmium	4.5 D,M	mg/Kg	1	SW846-6010	6/30/99 11:41	7/13/99 0:31	JAC
Calcium	520	mg/Kg	20	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Chromium	ND	mg/Kg	3	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Cobalt	0.96	mg/Kg	0.1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Copper	2.0	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Iron	1800	mg/Kg	10	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Lead	5.9	mg/Kg	0.5	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Magnesium	250	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Manganese	110	mg/Kg	0.3	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Mercury	ND	mg/Kg	0.026	SW846-7471	7/9/99 14:43	7/9/99 16:29	SM
Nickel	79	mg/Kg	5	SW846-6010	6/30/99 11:41	7/13/99 0:31	JAC
Potassium	350	mg/Kg	50	SW846-7610	6/30/99 11:38	7/15/99 16:27	SM
Selenium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Silver	ND	mg/Kg	0.5	SW846-6010	6/30/99 11:41	7/13/99 0:31	JAC
Sodium	170	mg/Kg	50	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Thallium	ND	mg/Kg	2	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Vanadium	2.4	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
Zinc	17	mg/Kg	1	SW846-6010	6/30/99 11:41	6/30/99 16:35	JAC
GENERAL CHEMISTRY ANALYSIS							
Cyanide	ND	mg/Kg	0.2	SW-846 9014	7/9/99 6:21	7/10/99 12:05	LRS

Respectfully submitted,
CT&E Environmental Services, Inc.

Project Manager, Michigan Division

Reported: 8/18/1999

Qualifiers

Certification Numbers: WI #999959180; MI #0021; AK UST #048; ND R-081; MD #266; IN C-MI-01

- ND Not detected
- B Blank contaminant
- D Dilution
- J Estimated result
- M Matrix interference

CT&E Environmental Services Inc.

Explanation of Terms and Data Qualifiers

Term/Qualifier	Description
Result	The value calculated from the analytical test reported to two significant figures.
Reporting Detection Limit	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. Reporting Detection Limits are often based on cleanup requirements, drinking water MCLs or permits and are always greater than the MDL.
MDL - Method Detection Limit.	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte. This value is determined using 40 CFR pt. 136 Appendix B.
Surrogates	Organic compounds that are added to the sample prior to testing to monitor the efficiency of the sample preparation and potential matrix interference.
Qualifiers	Flags which indicate problems or issues that could affect the result.
ND	Indicates compound was analyzed for but not detected at or above the reporting detection limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the reporting detection limit but greater than the method detection limit. Also used to report estimated results when matrix interference is present.
N	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. Also indicates that the sample has been diluted when used with a ND result.
X	The data should be considered suspect because some aspect of the test did not meet method requirements. This flag must always be accompanied by a explanation.

CT&E Environmental Services Inc.

CT&E QUALITY CONTROL SUMMARY

CT & E Environmental Services, Inc. - Anatech Division

METALS BATCH QC SUMMARY

PREP BATCH: m 9788
DATE: 6/30/99
UNITS: ~~mg/kg~~ mg/L
RUN: 0545

3990464

ELEMENT	PB	PS Result	PS (%)	Sample Result	MS Result	MS (%)	MSD Result	MSD (%)	RPD (%)	AS (%)
Silver	ND	0.045	90%	ND	3.3	87%	3.8	88%	1.14%	
Aluminum	0.22	4.7	94	2500	3900	—	3700	—	—	
Arsenic	ND	4.7	94	ND	340	89 ~~65%~~	380	88	1.13	
Barium		5.0	100	20	740	100	840	95	5.13	
Beryllium		4.68	94	0.1875	670	93	760	88	5.52	
Calcium		4.7	94	1160	~~6~~ 1700	142	1500	79	—	
Cadmium		4.6	92	ND	650	90	740	86	4.55	
Cobalt		4.8	96	1.3	690	96	780	91	5.35	
Chromium		4.7	94	5.7	650	89	740	86	3.43	
Copper		5.1	102	3.9	770	106	860	100	5.83	
Iron		4.7	94	3130	4000	121	5100	229	—	
Magnesium	0.048	5.0	100	510	930	110	970	100	9.52	
Manganese	0.034	4.76	95	89	740	90	880	92		
Molybdenum										
Sodium	0.52	5.88	118	77	560	127	590	119	2.20	
Nickel	0.011	4.72	94	3.48	670	93	770	89	4.40	
Antimony	0.028	—	~~2.63~~	2.63	1.6	—	—	—	~~5~~	
Thallium	ND	4.7	94	ND	705	98	786	90	8.51	
Vanadium		4.93	99	6.34	710	98	800	92	6.32	
Zinc	0.014	4.5	90	19	670	90	740	84	6.90	
Lead	ND	4.63	93	9.8	680	93	760	87	6.67	
Selenium		4.4	88	ND	650	90	720	85	5.71	

Spiked Sample: 3990496005

PS Acceptance Range - 85-115%

MS/MSD Range - 80-120%

CT & E Environmental Services, Inc. - Anatech Division

INORGANIC QC SUMMARY

ANALYTE: K
INSTRUMENT: Varian AA
PREP BATCH: 9788
DIGESTION DATE: 6-30-99
ANALYST: SM
UNITS: mg/L

RUN DATE: 7-15-99
REPORT DATE: 7-15-99
ANALYTICAL BATCH: 1024 MFL
METHOD:
REVIEW:
PROJECT #: 3990 464

BLANKS	CONC.	LOD	COMMENT
Prep Blank	ND	0.5	
ICB			
CCB			
CCB			
CCB			
CCB			
CCB			

ICV/CCV	TRUE	FOUND	% RECOVERY	COMMENT
ICV				
CCV				
CCV				
CCV				
CCV				
CCV				

SPIKES	SPK ADDED	SAMPLE CONC	SPK CONC	% RECOVERY
Prep Spk	5.0		4.74	95%
MS	↓	4.36	8.79	89%
MSD	↓	↓	9.33	99%
Sample Spike: 3990464 001			RPD=	

ASPK	SPK ADDED	SAMPLE CONC	ASPK CONC	% RECOVERY

MSA	SAMPLE ID			
ADDITION 1:	ADDITION 2:	ADDITION 3:	ADDITION 4:	CORRELATION COEFFICIENT
0				

CT & E Environmental Services, Inc. - Anatech Division

INORGANIC QC SUMMARY

ANALYTE:	Hg	RUN DATE:	7-9-99
INSTRUMENT:	Varian AA	REPORT DATE:	7-9-99
PREP BATCH:	1623/708	ANALYTICAL BATCH:	1042 MCV
DIGESTION DATE:	7-9-99	METHOD:	
ANALYST:	SM	REVIEW:	
UNITS:	ug/L	PROJECT #:	3990 464

BLANKS	CONC.	LOD	COMMENT
Prep Blank	ND	0.2	
ICB			
CCB			
CCB			
CCB			
CCB			
CCB			

ICV/CCV	TRUE	FOUND	% RECOVERY	COMMENT
ICV				
CCV				
CCV				
CCV				
CCV				
CCV				

SPIKES	SPK ADDED	SAMPLE CONC	SPK CONC	% RECOVERY
Prep Spk	1.4		1.4307	102%
MS	1.0	ND	1.072	107%
MSD	↓	↓	1.076	108%
Sample Spike: 3990 464 001			RPD=	

ASPK	SPK ADDED	SAMPLE CONC	ASPK CONC	% RECOVERY

MSA	SAMPLE ID			
ADDITION 1:	ADDITION 2:	ADDITION 3:	ADDITION 4:	CORRELATION COEFFICIENT
0				

CT & E Environmental Services, Inc. - Anatech Division

INORGANIC QC SUMMARY

ANALYTE: T-CN
INSTRUMENT: LACHAT QC 8000
PREP BATCH: ~~7-9-99~~ 1089 WOLX
DIGESTION DATE: 7-9-99
ANALYST: LS
UNITS: mg/L

RUN DATE: 7-10-99
REPORT DATE: 7-10-99
ANALYTICAL BATCH: 1035 WTN
METHOD: 335.2
REVIEW:
PROJECT #: 3390 464 (001-006)

BLANKS	CONC.	LOD	COMMENT
Prep Blank	ND	0.005	
ICB			
CCB			
CCB			
CCB			
CCB			
CCB			

ICV/CCV	TRUE	FOUND	% RECOVERY	COMMENT
ICV				
CCV				
CCV				
CCV				
CCV				
CCV				

SPIKES	SPK ADDED	SAMPLE CONC	SPK CONC	% RECOVERY
Prep Spk	0.2	—	0.2005	
MS 3990 464 OCH	0.1	ND	0.1008	
MSD OCH	↓	↓	0.1012	
Sample Spike:			RPD=	

ASPK	SPK ADDED	SAMPLE CONC	ASPK CONC	% RECOVERY

MSA	SAMPLE ID			
ADDITION 1:	ADDITION 2:	ADDITION 3:	ADDITION 4:	CORRELATION COEFFICIENT
0				

CORE LABORATORY REPORT

CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 995173

Prepared For:

Commercial Testing & Engineering
Anatech Division
1200 Conrad Industrial Dr
Ludington, MI 49431-2681

Attention: Jason Asher

Date: 07/30/99

Signature

Name: Don W. Ukele

Title: Project Manager

Date 7/30/99

420 West First Street
Casper, WY 82601

PHONE: 307-235-5741
FAX..: 307-266-1676

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CORE LABORATORIES

SAMPLE INFORMATION
Date: 07/30/99

Job Number.: 995173
Customer...: Commercial Testing & Engineering
Attn.....: Jason Asher

Project Number.....: 98000031
Customer Project ID....: NMED BAYO CANYON
Project Description....: Licensed Facility Samples

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
995173-1	10-BAYO-6-99-01	Soil	06/24/1999	08:50	06/30/1999	09:55
995173-2	10-BAYO-6-99-02	Soil	06/24/1999	09:20	06/30/1999	09:55
995173-3	10-BAYO-6-99-03	Soil	06/24/1999	09:40	06/30/1999	09:55
995173-4	10-BAYO-6-99-04	Soil	06/24/1999	09:45	06/30/1999	09:55
995173-5	10-BAYO-6-99-05	Soil	06/24/1999	10:55	06/30/1999	09:55
995173-6	10-BAYO-6-99-06	Soil	06/24/1999	11:05	06/30/1999	09:55

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-01
Date Sampled.....: 06/24/1999
Time Sampled.....: 08:50
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-1
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	15.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.2		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.2		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	45.6		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.6		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.4		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	1.0		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	ND		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	1.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	1.83		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.03		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-01
Date Sampled.....: 06/24/1999
Time Sampled.....: 08:50
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-1
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.0		pCi/g	07/09/99	mdg
	Actinium-228, Error +/-, Solid	0.6		pCi/g	07/09/99	mdg
	Americium-241, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Antimony-124, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Antimony-125, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Barium-140, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Beryllium-7, Activity, Solid	<0.3		pCi/g	07/09/99	mdg
	Bismuth-206, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Bismuth-212, Activity, Solid	2.7		pCi/g	07/09/99	mdg
	Bismuth-212, Error +/-, Solid	1.3		pCi/g	07/09/99	mdg
	Bismuth-214, Activity, Solid	2.2		pCi/g	07/09/99	mdg
	Bismuth-214, Error +/-, Solid	0.4		pCi/g	07/09/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-144, Activity, Solid	<0.4		pCi/g	07/09/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-136, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-137, Activity, Solid	0.3		pCi/g	07/09/99	mdg
	Cesium-137, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Chromium-51, Activity, Solid	<0.4		pCi/g	07/09/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-155, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Iodine-131, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Iron-59, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Lanthanum-140, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Lead-210, Activity, Solid	4.0		pCi/g	07/09/99	mdg
	Lead-210, Error +/-, Solid	2.0		pCi/g	07/09/99	mdg
	Lead-212, Activity, Solid	1.8		pCi/g	07/09/99	mdg
	Lead-212, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Lead-214, Activity, Solid	2.4		pCi/g	07/09/99	mdg
	Lead-214, Error +/-, Solid	0.3		pCi/g	07/09/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Potassium-40, Activity, Solid	39.0		pCi/g	07/09/99	mdg
	Potassium-40, Error +/-, Solid	3.3		pCi/g	07/09/99	mdg
	Protactinium-234m, Activity, Solid	<11.1		pCi/g	07/09/99	mdg
	Ruthenium-106, Activity, Solid	1.6		pCi/g	07/09/99	mdg
	Ruthenium-106, Error +/-, Solid	0.8		pCi/g	07/09/99	mdg
	Scandium-46, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Scandium-46, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Sodium-22, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-01
Date Sampled.....: 06/24/1999
Time Sampled.....: 08:50
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-1
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Thallium-208, Activity, Solid	0.6		pCi/g	07/09/99	mdg
	Thallium-208, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Thorium-227, Activity, Solid	<0.7		pCi/g	07/09/99	mdg
	Thorium-234, Activity, Solid	6.3		pCi/g	07/09/99	mdg
	Thorium-234, Error +/-, Solid	2.3		pCi/g	07/09/99	mdg
	Uranium-235, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Zinc-65, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Zirconium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-02
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:20
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-2
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	22.0		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.2		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	48.1		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.4		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	1.7		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.5		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	1.7		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.4		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	3.03		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.04		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-02
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:20
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-2
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.4		pCi/g	07/09/99	mdg
	Actinium-228, Error +/-, Solid	0.6		pCi/g	07/09/99	mdg
	Americium-241, Activity, Solid	<0.8		pCi/g	07/09/99	mdg
	Antimony-124, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Antimony-125, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Barium-140, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Beryllium-7, Activity, Solid	<0.5		pCi/g	07/09/99	mdg
	Bismuth-206, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Bismuth-212, Activity, Solid	4.1		pCi/g	07/09/99	mdg
	Bismuth-212, Error +/-, Solid	2.0		pCi/g	07/09/99	mdg
	Bismuth-214, Activity, Solid	2.9		pCi/g	07/09/99	mdg
	Bismuth-214, Error +/-, Solid	0.4		pCi/g	07/09/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-144, Activity, Solid	<0.5		pCi/g	07/09/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-136, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-137, Activity, Solid	0.5		pCi/g	07/09/99	mdg
	Cesium-137, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Chromium-51, Activity, Solid	<0.5		pCi/g	07/09/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-155, Activity, Solid	0.7		pCi/g	07/09/99	mdg
	Europium-155, Error +/-, Solid	0.3		pCi/g	07/09/99	mdg
	Iodine-131, Activity, Solid	<0.4		pCi/g	07/09/99	mdg
	Iron-59, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Lanthanum-140, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Lead-210, Activity, Solid	<46.1		pCi/g	07/09/99	mdg
	Lead-212, Activity, Solid	2.5		pCi/g	07/09/99	mdg
	Lead-212, Error +/-, Solid	0.3		pCi/g	07/09/99	mdg
	Lead-214, Activity, Solid	2.9		pCi/g	07/09/99	mdg
	Lead-214, Error +/-, Solid	0.5		pCi/g	07/09/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Potassium-40, Activity, Solid	35.6		pCi/g	07/09/99	mdg
	Potassium-40, Error +/-, Solid	4.7		pCi/g	07/09/99	mdg
	Protactinium-234m, Activity, Solid	<6.7		pCi/g	07/09/99	mdg
	Ruthenium-106, Activity, Solid	1.2		pCi/g	07/09/99	mdg
	Ruthenium-106, Error +/-, Solid	0.6		pCi/g	07/09/99	mdg
	Scandium-46, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Scandium-46, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Sodium-22, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-02
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:20
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-2
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Thallium-208, Activity, Solid	0.8		pCi/g	07/09/99	mdg
	Thallium-208, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Thorium-227, Activity, Solid	<0.5		pCi/g	07/09/99	mdg
	Thorium-234, Activity, Solid	<3.9		pCi/g	07/09/99	mdg
	Uranium-235, Activity, Solid	<0.4		pCi/g	07/09/99	mdg
	Zinc-65, Activity, Solid	<0.3		pCi/g	07/09/99	mdg
	Zirconium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-03
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:40
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-3
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	9.9		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.0		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	41.0		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.4		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	1.2		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	1.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	2.35		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.03		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-03
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:40
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-3
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.4		pCi/g	07/09/99	mdg
	Actinium-228, Error +/-, Solid	0.4		pCi/g	07/09/99	mdg
	Americium-241, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Antimony-124, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Antimony-125, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Barium-140, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Beryllium-7, Activity, Solid	<0.3		pCi/g	07/09/99	mdg
	Bismuth-206, Activity, Solid	0.2		pCi/g	07/09/99	mdg
	Bismuth-206, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Bismuth-212, Activity, Solid	3.4		pCi/g	07/09/99	mdg
	Bismuth-212, Error +/-, Solid	1.3		pCi/g	07/09/99	mdg
	Bismuth-214, Activity, Solid	2.8		pCi/g	07/09/99	mdg
	Bismuth-214, Error +/-, Solid	0.4		pCi/g	07/09/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cerium-144, Activity, Solid	<0.3		pCi/g	07/09/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-136, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cesium-137, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Chromium-51, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Europium-155, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Europium-155, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Iodine-131, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Iron-59, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Lanthanum-140, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Lead-210, Activity, Solid	4.3		pCi/g	07/09/99	mdg
	Lead-210, Error +/-, Solid	1.2		pCi/g	07/09/99	mdg
	Lead-212, Activity, Solid	2.0		pCi/g	07/09/99	mdg
	Lead-212, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Lead-214, Activity, Solid	2.8		pCi/g	07/09/99	mdg
	Lead-214, Error +/-, Solid	0.4		pCi/g	07/09/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Potassium-40, Activity, Solid	37.5		pCi/g	07/09/99	mdg
	Potassium-40, Error +/-, Solid	3.3		pCi/g	07/09/99	mdg
	Protactinium-234m, Activity, Solid	<1.0		pCi/g	07/09/99	mdg
	Ruthenium-106, Activity, Solid	<0.6		pCi/g	07/09/99	mdg
	Scandium-46, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Scandium-46, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Sodium-22, Activity, Solid	<0.1		pCi/g	07/09/99	mdg
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-03
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:40
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-3
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Thallium-208, Activity, Solid	0.7		pCi/g	07/09/99	mdg
	Thallium-208, Error +/-, Solid	0.2		pCi/g	07/09/99	mdg
	Thorium-227, Activity, Solid	<0.5		pCi/g	07/09/99	mdg
	Thorium-234, Activity, Solid	9.4		pCi/g	07/09/99	mdg
	Thorium-234, Error +/-, Solid	1.7		pCi/g	07/09/99	mdg
	Uranium-235, Activity, Solid	0.4		pCi/g	07/09/99	mdg
	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/09/99	mdg
	Zinc-65, Activity, Solid	<0.2		pCi/g	07/09/99	mdg
	Zirconium-95, Activity, Solid	<0.1		pCi/g	07/09/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-04
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-4
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	15.9		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	46.5		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.6		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.4		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	1.2		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	ND		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	1.4		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.4		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	2.68		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.04		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-04
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-4
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.2		pCi/g	07/12/99	mdg
	Actinium-228, Error +/-, Solid	0.5		pCi/g	07/12/99	mdg
	Americium-241, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-124, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-125, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Barium-140, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Beryllium-7, Activity, Solid	<0.4		pCi/g	07/12/99	mdg
	Bismuth-206, Activity, Solid	0.2		pCi/g	07/12/99	mdg
	Bismuth-206, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Bismuth-212, Activity, Solid	2.6		pCi/g	07/12/99	mdg
	Bismuth-212, Error +/-, Solid	1.3		pCi/g	07/12/99	mdg
	Bismuth-214, Activity, Solid	2.2		pCi/g	07/12/99	mdg
	Bismuth-214, Error +/-, Solid	0.5		pCi/g	07/12/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-144, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cesium-136, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Cesium-137, Activity, Solid	0.3		pCi/g	07/12/99	mdg
	Cesium-137, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Chromium-51, Activity, Solid	<0.5		pCi/g	07/12/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-155, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Iodine-131, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Iron-59, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Lanthanum-140, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Lead-210, Activity, Solid	<1.2		pCi/g	07/12/99	mdg
	Lead-212, Activity, Solid	2.3		pCi/g	07/12/99	mdg
	Lead-212, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Lead-214, Activity, Solid	2.4		pCi/g	07/12/99	mdg
	Lead-214, Error +/-, Solid	0.3		pCi/g	07/12/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Potassium-40, Activity, Solid	33.8		pCi/g	07/12/99	mdg
	Potassium-40, Error +/-, Solid	2.9		pCi/g	07/12/99	mdg
	Protactinium-234m, Activity, Solid	44.4		pCi/g	07/12/99	mdg
	Protactinium-234m, Error +/-, Solid	18.5		pCi/g	07/12/99	mdg
	Ruthenium-106, Activity, Solid	1.4		pCi/g	07/12/99	mdg
	Ruthenium-106, Error +/-, Solid	0.7		pCi/g	07/12/99	mdg
	Scandium-46, Activity, Solid	0.3		pCi/g	07/12/99	mdg
	Scandium-46, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Sodium-22, Activity, Solid	<0.1		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-04
Date Sampled.....: 06/24/1999
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-4
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Thallium-208, Activity, Solid	0.7		pCi/g	07/12/99	mdg
	Thallium-208, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Thorium-227, Activity, Solid	<0.7		pCi/g	07/12/99	mdg
	Thorium-234, Activity, Solid	5.7		pCi/g	07/12/99	mdg
	Thorium-234, Error +/-, Solid	1.8		pCi/g	07/12/99	mdg
	Uranium-235, Activity, Solid	0.4		pCi/g	07/12/99	mdg
	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Zinc-65, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Zirconium-95, Activity, Solid	<0.1		pCi/g	07/12/99	mdg

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LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-05
Date Sampled.....: 06/24/1999
Time Sampled.....: 10:55
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-5
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	23.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	53.2		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.6		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.3		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	2.0		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.5		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	2.3		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.5		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	3.13		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.05		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-05
Date Sampled.....: 06/24/1999
Time Sampled.....: 10:55
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-5
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.3		pCi/g	07/12/99	mdg
	Actinium-228, Error +/-, Solid	0.6		pCi/g	07/12/99	mdg
	Americium-241, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-124, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-125, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Barium-140, Activity, Solid	<0.3		pCi/g	07/12/99	mdg
	Beryllium-7, Activity, Solid	<0.7		pCi/g	07/12/99	mdg
	Bismuth-206, Activity, Solid	0.2		pCi/g	07/12/99	mdg
	Bismuth-206, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Bismuth-212, Activity, Solid	<3.4		pCi/g	07/12/99	mdg
	Bismuth-214, Activity, Solid	2.8		pCi/g	07/12/99	mdg
	Bismuth-214, Error +/-, Solid	0.4		pCi/g	07/12/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-144, Activity, Solid	<0.3		pCi/g	07/12/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cesium-136, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cesium-137, Activity, Solid	0.2		pCi/g	07/12/99	mdg
	Cesium-137, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Chromium-51, Activity, Solid	<0.4		pCi/g	07/12/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-155, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Iodine-131, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Iron-59, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Lanthanum-140, Activity, Solid	0.2		pCi/g	07/12/99	mdg
	Lanthanum-140, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Lead-210, Activity, Solid	6.3		pCi/g	07/12/99	mdg
	Lead-210, Error +/-, Solid	2.8		pCi/g	07/12/99	mdg
	Lead-212, Activity, Solid	2.5		pCi/g	07/12/99	mdg
	Lead-212, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Lead-214, Activity, Solid	2.8		pCi/g	07/12/99	mdg
	Lead-214, Error +/-, Solid	0.4		pCi/g	07/12/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Potassium-40, Activity, Solid	36.2		pCi/g	07/12/99	mdg
	Potassium-40, Error +/-, Solid	3.3		pCi/g	07/12/99	mdg
	Protactinium-234m, Activity, Solid	<14.4		pCi/g	07/12/99	mdg
	Ruthenium-106, Activity, Solid	<0.5		pCi/g	07/12/99	mdg
	Scandium-46, Activity, Solid	0.6		pCi/g	07/12/99	mdg
	Scandium-46, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Sodium-22, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-05
Date Sampled.....: 06/24/1999
Time Sampled.....: 10:55
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-5
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Thallium-208, Activity, Solid	0.8		pCi/g	07/12/99	mdg
	Thallium-208, Error +/-, Solid	0.3		pCi/g	07/12/99	mdg
	Thorium-227, Activity, Solid	<0.6		pCi/g	07/12/99	mdg
	Thorium-234, Activity, Solid	6.8		pCi/g	07/12/99	mdg
	Thorium-234, Error +/-, Solid	2.0		pCi/g	07/12/99	mdg
	Uranium-235, Activity, Solid	0.6		pCi/g	07/12/99	mdg
	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Zinc-65, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Zirconium-95, Activity, Solid	<0.2		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-06
Date Sampled.....: 06/24/1999
Time Sampled.....: 11:05
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-6
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 900.0	Gross Alpha, Activity, Solid	25.2		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, Error +/-, Solid	3.8		pCi/g	07/08/99	nrf
EPA 900.0	Gross Alpha, LLD, Solid	4.4		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Activity, Solid	53.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, Error +/-, Solid	2.7		pCi/g	07/08/99	nrf
EPA 900.0	Gross Beta, LLD, Solid	2.9		pCi/g	07/08/99	nrf
EPA 905.0	Strontium-89 activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, error, +/-, Solid	0.6		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-89, lLD, Solid	1.7		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Activity, Solid	ND		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, Error +/-, Solid	0.4		pCi/g	07/28/99	mdg
EPA 905.0	Strontium-90, LLD, Solid	0.8		pCi/g	07/28/99	mdg
mod. HASL 300	Uranium-234, Activity, Solid	1.7		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, Error +/-, Solid	0.4		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-234, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Activity, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-235, LLD, Solid	0.1		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Activity, Solid	1.5		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, Error +/-, Solid	0.4		pCi/g	07/14/99	kah
mod. HASL 300	Uranium-238, LLD, Solid	0.1		pCi/g	07/14/99	kah
CA-GLR-04.2	Uranium Natural, Solid	2.90		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, Error, Solid	0.04		pCi/g	07/12/99	mdg
CA-GLR-04.2	Uranium Natural, LLD, Solid	0.01		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-06
Date Sampled.....: 06/24/1999
Time Sampled.....: 11:05
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-6
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Gamma Scan (HPGe Gamma)					
	Actinium-228, Activity, Solid	2.3		pCi/g	07/12/99	mdg
	Actinium-228, Error +/-, Solid	0.5		pCi/g	07/12/99	mdg
	Americium-241, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-124, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Antimony-125, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Barium-140, Activity, Solid	<0.3		pCi/g	07/12/99	mdg
	Beryllium-7, Activity, Solid	<0.7		pCi/g	07/12/99	mdg
	Bismuth-206, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Bismuth-212, Activity, Solid	3.0		pCi/g	07/12/99	mdg
	Bismuth-212, Error +/-, Solid	1.5		pCi/g	07/12/99	mdg
	Bismuth-214, Activity, Solid	3.4		pCi/g	07/12/99	mdg
	Bismuth-214, Error +/-, Solid	0.5		pCi/g	07/12/99	mdg
	Cerium-139, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-141, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cerium-144, Activity, Solid	<0.4		pCi/g	07/12/99	mdg
	Cesium-134, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cesium-136, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Cesium-137, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-56, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-57, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-58, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Cobalt-60, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Chromium-51, Activity, Solid	<0.4		pCi/g	07/12/99	mdg
	Europium-152, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-154, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Europium-155, Activity, Solid	0.5		pCi/g	07/12/99	mdg
	Europium-155, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Iodine-131, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Iron-59, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Lanthanum-140, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Lead-210, Activity, Solid	4.4		pCi/g	07/12/99	mdg
	Lead-210, Error +/-, Solid	1.8		pCi/g	07/12/99	mdg
	Lead-212, Activity, Solid	2.4		pCi/g	07/12/99	mdg
	Lead-212, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Lead-214, Activity, Solid	3.3		pCi/g	07/12/99	mdg
	Lead-214, Error +/-, Solid	0.3		pCi/g	07/12/99	mdg
	Manganese-54, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Niobium-95, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Potassium-40, Activity, Solid	35.8		pCi/g	07/12/99	mdg
	Potassium-40, Error +/-, Solid	3.1		pCi/g	07/12/99	mdg
	Protactinium-234m, Activity, Solid	<4.7		pCi/g	07/12/99	mdg
	Ruthenium-106, Activity, Solid	<0.7		pCi/g	07/12/99	mdg
	Scandium-46, Activity, Solid	0.4		pCi/g	07/12/99	mdg
	Scandium-46, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Silver-110M, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Sodium-22, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Strontium-85, Activity, Solid	<0.1		pCi/g	07/12/99	mdg
	Thallium-208, Activity, Solid	1.0		pCi/g	07/12/99	mdg

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CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995173 Date: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: NMED BAYO CANYON ATTN: Jason Asher

Customer Sample ID: 10-BAYO-6-99-06
Date Sampled.....: 06/24/1999
Time Sampled.....: 11:05
Sample Matrix.....: Soil

Laboratory Sample ID: 995173-6
Date Received.....: 06/30/1999
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Thallium-208, Error +/-, Solid	0.2		pCi/g	07/12/99	mdg
	Thorium-227, Activity, Solid	<0.6		pCi/g	07/12/99	mdg
	Thorium-234, Activity, Solid	7.3		pCi/g	07/12/99	mdg
	Thorium-234, Error +/-, Solid	1.5		pCi/g	07/12/99	mdg
	Uranium-235, Activity, Solid	0.6		pCi/g	07/12/99	mdg
	Uranium-235, Error +/-, Solid	0.1		pCi/g	07/12/99	mdg
	Zinc-65, Activity, Solid	<0.2		pCi/g	07/12/99	mdg
	Zirconium-95, Activity, Solid	<0.1		pCi/g	07/12/99	mdg

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CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number.: 995173 | Report Date.: 07/30/99

CUSTOMER: Commercial Testing & Engineering | PROJECT: Licensed Facility Samples | ATTN: Jason Asher

Test Method.....: EPA 900.0 | Batch.....: 13663 | Analyst...: nrf
Method Description.: Gross alpha/beta | Units.....: pCi/L
Parameter.....: Gross Alpha, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MD	995173-6		26.2			25.2	3.9	R	20	07/08/1999	1438
LCD		L2A070799	27.0	27.1	25.5	27.1	105.9	%	70-125	07/08/1999	1438
							0.4	R	20		
LCS		L1A070799	27.1		25.5		106.3	%	70-125	07/08/1999	1438
MB		MB2AB0707	ND							07/08/1999	1438

Test Method.....: EPA 900.0 | Batch.....: 13663 | Analyst...: nrf
Method Description.: Gross alpha/beta | Units.....: pCi/L
Parameter.....: Gross Beta, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		MB2AB0707	ND							07/08/1999	1438
LCS		L1B070799	17.0		16.5		103.0	%	70-125	07/08/1999	1438
MD	995173-6		52.3			53.7	2.6	R	20	07/08/1999	1438
LCD		L2B070799	16.7	17.0	16.5	17.0	101.2	%	70-125	07/08/1999	1438
							1.8	R	20		

Test Method.....: EPA 905.0 | Batch.....: 13886 | Analyst...: mdg
Method Description.: Strontium-89,90 | Units.....: pCi/L
Parameter.....: Strontium-89 activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	995173-1	995173MSSR	32.6		38.8	ND	84.0	%	75-125	07/28/1999	1041
MD	995173-3		ND			ND	0.0	R	20	07/28/1999	1041
LCS		LBSR070699	18.8		19.4		96.9	%	80-120	07/28/1999	1041
MB		MBBSR0706	ND							07/28/1999	1041

Test Method.....: EPA 905.0 | Batch.....: 13886 | Analyst...: mdg
Method Description.: Strontium-89,90 | Units.....: pCi/L
Parameter.....: Strontium-90, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		LASR070699	23.0		22.2		103.6	%	80-120	07/28/1999	1041
MB		MBBSR0706	ND							07/28/1999	1041
MS	995173-4	995173MSSR	37.9		44.4	ND	85.4	%	75-125	07/28/1999	1041
MD	995173-3		ND			ND	0.0	R	20	07/28/1999	1041

Test Method.....: CA-GLR-04.2 | Batch.....: 13770 | Analyst...: mdg
Method Description.: Unat by KPA | Units.....: pCi/L
Parameter.....: Uranium Natural

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	995173-6	995173MSUK	6.06		3.77	2.90	83.8	%	70-125	07/12/1999	1041
LCS		L1UK071299	3.69		3.795		97.2	%	70-125	07/12/1999	1041
MB		MB2UK0712	<0.01							07/12/1999	1041

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number.: 995173 | Report Date.: 07/30/99

CUSTOMER: Commercial Testing & Engineering | PROJECT: Licensed Facility Samples | ATTN: Jason Asher

Test Method.....: CA-GLR-04.2 | Batch.....: 13770 | Analyst...: mdg
Method Description.: Unat by KPA | Units.....: pCi/L
Parameter.....: Uranium Natural

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MD	995173-5		3.25			3.13	3.8	R	20	07/12/1999	1041

Test Method.....: mod. HASL 300 | Batch.....: 13768 | Analyst...: kah
Method Description.: Isotopic Uranium | Units.....: pCi/L
Parameter.....: Uranium-234, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		MBAU0706	0.1							07/14/1999	0842
LCS		LAU070699	3.3		3.6		91.7	%	70-125	07/14/1999	0842
MD	995173-1		1.2			1.0	18.2	R	20	07/14/1999	0842
MS	995173-2	995173MSU	5.7		3.6	1.7	111.1	%	70-125	07/14/1999	0842

Test Method.....: mod. HASL 300 | Batch.....: 13768 | Analyst...: kah
Method Description.: Isotopic Uranium | Units.....: pCi/L
Parameter.....: Uranium-235, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		MBAU0706	0.1							07/14/1999	0842
MD	995173-1		0.1			ND	0.1	A	0.1	07/14/1999	0842

Test Method.....: mod. HASL 300 | Batch.....: 13768 | Analyst...: kah
Method Description.: Isotopic Uranium | Units.....: pCi/L
Parameter.....: Uranium-238, Activity

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		MBAU0706	0.1							07/14/1999	0842
LCS		LAU070699	3.6		3.6		100.0	%	70-125	07/14/1999	0842
MS	995173-2	995173MSU	5.5		3.6	1.7	105.6	%	70-125	07/14/1999	0842
MD	995173-1		0.8			1.1	31.6	R	20	07/14/1999	0842

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number.: 995173

Report Date.: 07/30/99

CUSTOMER: Commercial Testing & Engineering PROJECT: Licensed Facility Samples ATTN: Jason Asher

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: EPA 901.1
Method Description.: Gamma Scan (HPGe Gamma)
Batch.....: 13795
Units.....: pCi/g
Analyst...: mdg

LCS	Laboratory Control Sample	D3070899CC			07/08/1999	0858

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Americium-241, Activity	101000		101000		100.0	%	70-125
Cesium-137, Activity	42900		40000		107.2	%	70-125
Cobalt-60, Activity	66700		67300		99.1	%	70-125

LCS	Laboratory Control Sample	D2070999CC			07/09/1999	0708

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Americium-241, Activity	93400		101000		92.5	%	70-125
Cesium-137, Activity	43600		40000		109.0	%	70-125
Cobalt-60, Activity	67900		67300		100.9	%	70-125

LCS	Laboratory Control Sample	D3070999CC			07/09/1999	0720

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Americium-241, Activity	99900		101000		98.9	%	70-125
Cesium-137, Activity	42700		40000		106.8	%	70-125
Cobalt-60, Activity	66400		67300		98.7	%	70-125

LCS	Laboratory Control Sample	D3071299CC			07/12/1999	0723

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Americium-241, Activity	102000		101000		101.0	%	70-125
Cesium-137, Activity	40600		40000		101.5	%	70-125
Cobalt-60, Activity	66700		67300		99.1	%	70-125

MD	Method Duplicate		995173-1		07/12/1999	1154

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Actinium-228, Activity	1.7			2.0	16.2	R	20
Americium-241, Activity	<0.1			<0.1	0.0	R	20
Antimony-124, Activity	<0.1			<0.1	0.0	R	20
Antimony-125, Activity	<0.1			<0.2	0.0	R	20
Barium-140, Activity	<0.1			<0.2	0.0	R	20
Beryllium-7, Activity	<0.6			<0.3	0.0	R	20
Bismuth-206, Activity	<0.3			<0.1	0.0	R	20
Bismuth-212, Activity	2.5			2.7	7.7	R	20
Bismuth-214, Activity	2.6			2.2	16.7	R	20
Cerium-139, Activity	<0.1			<0.1	0.0	R	20
Cerium-141, Activity	<0.1			<0.1	0.0	R	20
Cerium-144, Activity	<0.3			<0.4	0.0	R	20
Cesium-134, Activity	<0.1			<0.1	0.0	R	20
Cesium-136, Activity	<0.1			<0.1	0.0	R	20

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number.: 995173 | Report Date.: 07/30/99

CUSTOMER: Commercial Testing & Engineering | PROJECT: Licensed Facility Samples | ATTN: Jason Asher

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MD	Method Duplicate		995173-1		07/12/1999	1154

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Cesium-137, Activity	0.2			0.3	0.1	A	0.1
Cobalt-56, Activity	<0.1			<0.1	0.0	R	20
Cobalt-57, Activity	<0.1			<0.1	0.0	R	20
Cobalt-58, Activity	<0.1			<0.1	0.0	R	20
Cobalt-60, Activity	<0.1			<0.1	0.0	R	20
Chromium-51, Activity	<0.2			<0.4	0.0	R	20
Europium-152, Activity	<0.1			<0.1	0.0	R	20
Europium-154, Activity	<0.1			<0.1	0.0	R	20
Europium-155, Activity	0.3			<0.1	0.3	A	0.1
Iodine-131, Activity	<0.1			<0.1	0.0	R	20
Iron-59, Activity	<0.1			<0.1	0.0	R	20
Lanthanum-140, Activity	<0.1			<0.1	0.0	R	20
Lead-210, Activity	3.9			4.0	2.5	R	20
Lead-212, Activity	1.8			1.8	0.0	R	20
Lead-214, Activity	2.7			2.4	11.8	R	20
Manganese-54, Activity	<0.1			<0.1	0.0	R	20
Niobium-95, Activity	<0.1			<0.1	0.0	R	20
Potassium-40, Activity	37.0			39.0	5.3	R	20
Protactinium-234m, Activity	<7.2			<11.1	0.0	R	20
Ruthenium-106, Activity	1.6			1.6	0.0	R	20
Scandium-46, Activity	0.5			0.4	0.1	A	0.1
Silver-110M, Activity	<0.1			<0.1	0.0	R	20
Sodium-22, Activity	<0.1			<0.1	0.0	R	20
Strontium-85, Activity	<0.1			<0.1	0.0	R	20
Thallium-208, Activity	0.6			0.6	0.0	R	20
Thorium-227, Activity	<0.5			<0.7	0.0	R	20
Thorium-234, Activity	5.0			6.3	23.0	R	20
Uranium-235, Activity	0.4			0.4	0.0	A	0.1
Zinc-65, Activity	<0.2			<0.2	0.0	R	20
Zirconium-95, Activity	<0.1			<0.1	0.0	R	20

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86), Update I (7/92), Update II (9/94), Update IIA (8/93), Update IIB (1/95), Update III (6/97)
(3) Standard Methods for the Examination of Water and Wastewater, 18th, 1992
(4) EPA 600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water, August 1980
(5) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(6) EPA 600/8-78-017, Microbiological Methods for Monitoring the Environment, December 1978

COMMENTS

(1) The data in the Laboratory Test Results Report may differ from the data in the QC Report due to calculations for sample preparation and/or dilutions.
(2) The "Time Analyzed" in the QC Report may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.
(3) Soil and sludge samples are reported on a wet basis or on an "as received" basis unless otherwise indicated.
(4) The data in this report are within the limits of uncertainty specified in the referenced method unless otherwise indicated.
(5) Analyses performed by a subcontract laboratory are indicated with an asterisk and associated code in the "Technician" data field.

Subcontract Laboratories	Code	Subcontract Laboratories	Code
Core Laboratories - Anaheim, CA	AN	Core Laboratories - Houston, TX (Pet)	HP
Core Laboratories - Aurora, CO	AU	Core Laboratories - Houston, TX (Env)	HR
Core Laboratories - Casper, WY	CA	Core Laboratories - Indianapolis, IN	IN
Core Laboratories - Corpus Christi, TX	CC	Core Laboratories - Lake Charles, LA	LC
Core Laboratories - Carson, CA	CR	Core Laboratories - Valparaiso, IN	VP
Core Laboratories - Edison, NJ	ED	Other Subcontract Laboratories	XX

DEFINITIONS

(1) NC = Not Calculable due to values lower than the reporting limit.
(2) ND = Not Detected above the reporting limit.

QC SAMPLE IDENTIFICATIONS

BLANKS

MB = Method Blank (also referred to as a preparation blank)
RB = Reagent Blank
IB = Instrument Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
HB = Holding Blank (also referred to as a storage blank)

DUPLICATES

MSD = Matrix Spike Duplicate
MD = Method Duplicate

SPIKES

MS = Matrix Spike
MSD = Matrix Spike Duplicate
PDS = Post Digestion Spike
BS = Blank Spike (also referred to as a method spike)
SS = Surrogate Spike

REFERENCE STANDARDS

CS = Calibration Standard
RS = Reference Standard (also referred to as an external reference standard)
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample

420 West First Street
Casper, WY 82601
(307) 235-5741

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EVERGREEN LABORATORY REPORT

Evergreen
Analytical
Laboratory

July 15, 1999

JASON ASHER
CT&E ENVIRONMENTAL SERVICES INC
1200 CONRAD INDUSTRIAL DRIVE
LUDINGTON, MI 49431-2681

Lab Work Order: 99-3179
Client Project: NMED Bayo Canyon

Dear Jason Asher:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact me.

Yes	No	NA*	
X			The samples received in good condition within EPA holding times.
X			Custody seals present. Seal intact: X Yes ___No
		X	Samples preserved to acceptable pH levels.
X			Samples analyzed within holding times per the analytical method.
	X		A case narrative explaining analytical anomalies is attached.

NA*=not applicable

The temperature of the sample(s) upon arrival was 4 degrees C.

This report contains a total of 17 pages including the cover letter.

SAMPLE DISPOSAL: Except for high level mercury (>260 ppm) samples, EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

RECORDS RETENTION: A copy of this project report and supporting data will be retained for a period of five years. If you want the project file sent to you after the five year period, please return a copy of this letter.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,

for: Carl Smits
V.P. Q.A.

Evergreen Analytical Laboratory

99-3179

WORK ORDER Summary

20-Jul 10:07 am

Report To: Jason Asher

CT&E Environmental Services Inc
1200 Conrad Industrial Drive
Ludington, MI 49431-2681

Client Project ID: NMED Bayo Canyon

Phone: (616) 843-1877
FAX: (616) 845-9942

Comments:

QC Level: Laboratory Standard QC

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
99-3179-01A	10-Bayo-6-99-01	Explosives 8330		Sediment	D6	24-Jun-1999	30-Jun-1999	15-Jul-1999	8-Jul-1999
99-3179-02A	10-Bayo-6-99-02	Explosives 8330						15-Jul-1999	8-Jul-1999
99-3179-03A	10-Bayo-6-99-03	Explosives 8330						15-Jul-1999	8-Jul-1999
99-3179-04A	10-Bayo-6-99-04	Explosives 8330						15-Jul-1999	8-Jul-1999
99-3179-05A	10-Bayo-6-99-05	Explosives 8330						15-Jul-1999	8-Jul-1999
99-3179-06A	10-Bayo-6-99-06	Explosives 8330						15-Jul-1999	8-Jul-1999

# = Special list. See sample comments or test information.
HT = Holding Time expiration date.

Chain of Custody

Lab ID#

CT&E Environmental Services Inc.

Anatech Division, 1200 Conrad Industrial Dr., Ludington, MI 49431-2681

Page

Phone: 616-843-1877 FAX: 616-845-9942

Results To: CT&E
1200 Conrad Ind Dr
Ludington, MI 49431

Attention: JASON ASHER

Telephone # 616-843-1877

FAX ? Yes (No) FAX #

Invoice To: SAME

Telephone #

Project Name: NMED Bayo Canyon

Project Number:

State in which samples were collected: NM

REQUIRED COMPLETION DATE:

Sampled by: JRY

Work Authorization Signature: [signature]

This signature authorizes CT&E to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods: Explosives 8330

Comment/Notes: Quote # 1713

PO# 106246

WO# 99-3179 BOF# NM
C/S(O) NA / NA C/S(I) C / UPS
Seals Present Y/N/NA; Intact Y/N
Pres Y/N/NA Hd Sp Y/N/NA Loc
Temp (C) 4 Container 8WM By AS

Sample ID	Client Sample ID	Sampling Location	Date 1999	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Explosives 8330							VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	10-Bayo-6-99-01	Bayo Canyon	6/24	0850	G	Sed			X						01								
	10-Bayo-6-99-02	"	"	0920	G	"			X						02								
	10-Bayo-6-99-03	"	"	0940	G	"			X						03								
	10-Bayo-6-99-04	"	"	0945	G	"			X						04								
	10-Bayo-6-99-05	"	"	1055	G	"			X						05								
	10-Bayo-6-99-06	"	"	1105	G	"			X						06								
									A														
									BWT.														

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
A. Shelbrelt	6-29-99 11:15				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Amy Stumm	6/30/99 10:30				
Cooler Temp #1	**Cooler Temp #2**	**Cooler Temp #3**	**Cooler Temp #4**		

CT&E ENVIRONMENTAL SERVICES INC.

TERMS AND CONDITIONS

By accepting a proposal or price quotation, placing a work request, submitting a sample for testing, or using a report from CT&E Environmental Services Inc. (CT&E ESI) the Client agrees to the following terms and conditions:

SCOPE OF SERVICES

CT&E ESI performs testing services on samples submitted to or collected by CT&E ESI using environmental testing industry accepted protocols, practices and standards and as requested by Client. CT&E ESI provides a written report of analytical results.

Turn around time (TAT) is measured in business days (weekends and holidays excluded) and begins the day after the sample arrives at the laboratory. CT&E ESI's typical TAT is 10 business days. Expedited service may be available with advance consultation.

DUTIES OF CUSTOMER

Client will submit written work requests to CT&E ESI stating scope and timing of work, testing criteria and any other information necessary for CT&E ESI to perform the work. Client will designate a representative to transmit instructions, receive information, and make decisions.

Samples delivered to CT&E ESI must be preceded or accompanied by written disclosure of any hazardous substances known or suspected by Client. Samples suspected of containing a hazardous substance must be packaged, labeled, transported and delivered in accordance with applicable laws, with safety of utmost concern.

CT&E ESI reserves the absolute right to refuse delivery or revoke acceptance of any sample which in the sole judgment of CT&E ESI is of unsuitable volume, arrives in a leaking or damaged container, or may pose a risk in handling, transport or processing or for any other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to CT&E ESI by the Client.

PAYMENT TERMS & PRICE

For clients with approved credit, CT&E ESI will bill monthly for work completed during the previous month. Client agrees to pay invoices within thirty (30)days after receipt. Client agrees to pay a late charge on past due invoices at one and one-half percent (1.5%) per month (eighteen percent (18%) per annum (or such lower rate required by law. Client agrees to pay all expenses incurred by CT&E ESI, including attorney fees and court costs, to collect any past due amounts.

Fees are per CT&E ESI's current price list and are subject to change without prior notice. Fees include sample and shipping containers. CT&E ESI requires at least 3 business days notice to prepare and ship sample containers. Non-expedited shipping costs to the client are assumed by CT&E ESI. Rush delivery shipping charges are assumed by the Client. Results are delivered by mail or with special arrangements verbally, by fax or computer disk. Surcharges for rush analysis are: 1-2 Day TAT = 2 X Standard Fee; 3-5 Day TAT = 1.5 X Standard Fee.

LIMITED WARRANTY

CT&E ESI shall perform all services with reasonable care and diligence normal to the environmental testing industry. CT&E ESI's sole obligation hereunder shall be to re-perform services which are materially deficient without charge, so long as such deficiencies are reported in writing to CT&E ESI within thirty (30) days after the discovery thereof, but in no event later than one (1) year from the performance of the services by CT&E ESI.

By their very nature sampling, testing, and other CT&E ESI services are limited in scope and subject to expected measurement variability and possible interferences in the measurement process caused by the sample matrix. CT&E ESI makes no warranty that the tested sample is representative of the source from which the sample was taken or that any particular analysis can be performed on a particular sample. CT&E ESI may on occasion utilize subcontractors.

CT&E ESI MAKES NO EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ON THE SERVICES OF CT&E ESI. IN NO EVENT SHALL CT&E ESI BE LIABLE FOR ANY INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES. NOR SHALL CT&E ESI BE LIABLE IN ANY EVENT, INCLUDING ITS OBLIGATION TO RE-PERFORM, FOR ANY LOSSES, DAMAGES OR CLAIMS IN EXCESS OF THE AMOUNT PAID TO CT&E ESI FOR THE SERVICES HEREUNDER.

CONFIDENTIALITY

CT&E ESI shall keep documents and information related to the Client confidential and will not disclose any such information to third parties without Client permission except in response to legal process after giving a copy of such process to Client.

FORCE MAJEURE

CT&E ESI shall have no liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, equipment failures, acts of authorities, or delays in transportation, mail or delivery services.

RECORDS/SAMPLE RETENTION

CT&E ESI will retain copies of data and reports for five years after which such documents will be destroyed. If Client requests additional copies of reports or data during the retention period, an additional charge will apply for the preparation and delivery of such reports.

Samples known or suspected to contain hazardous substances or determined by CT&E ESI to be incompatible with existing waste streams may be returned at Client's cost, to the Client upon completion of testing. Samples not destroyed in testing and not returned to the Client will be retained for 30 days after submittal of the final data report, and thereafter disposed of by CT&E ESI. Samples can be retained beyond 30 days at a monthly storage charge payable in advance.

CHOICE OF LAW

The agreement between Client and CT&E ESI shall be interpreted under the laws of the state in which CT&E ESI receives the samples.

AMENDMENT AND CONFLICTING PROVISIONS

These Terms and Conditions may be amended only by written agreement of CT&E ESI. These Terms and Conditions shall override conflicting provisions contained in Client purchase order or other standard form documents.

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-01	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-01	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A12A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

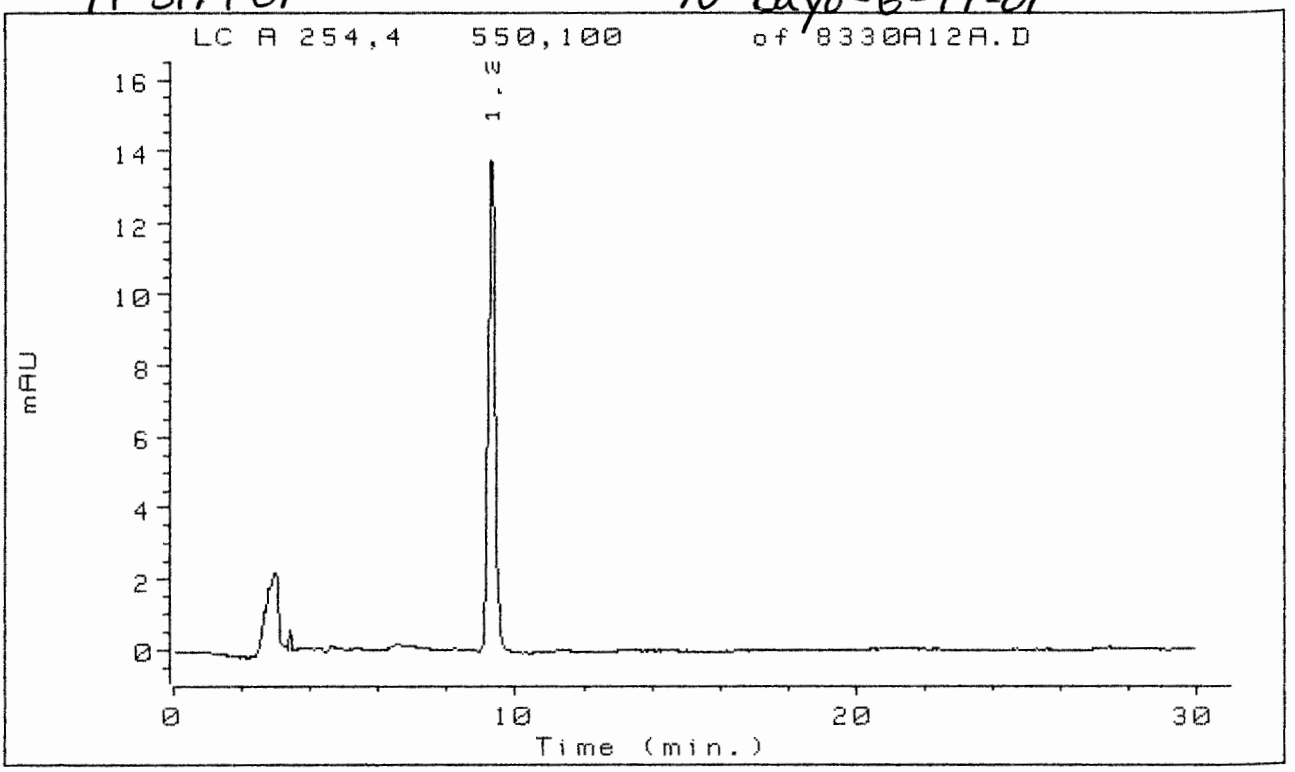
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 105 %

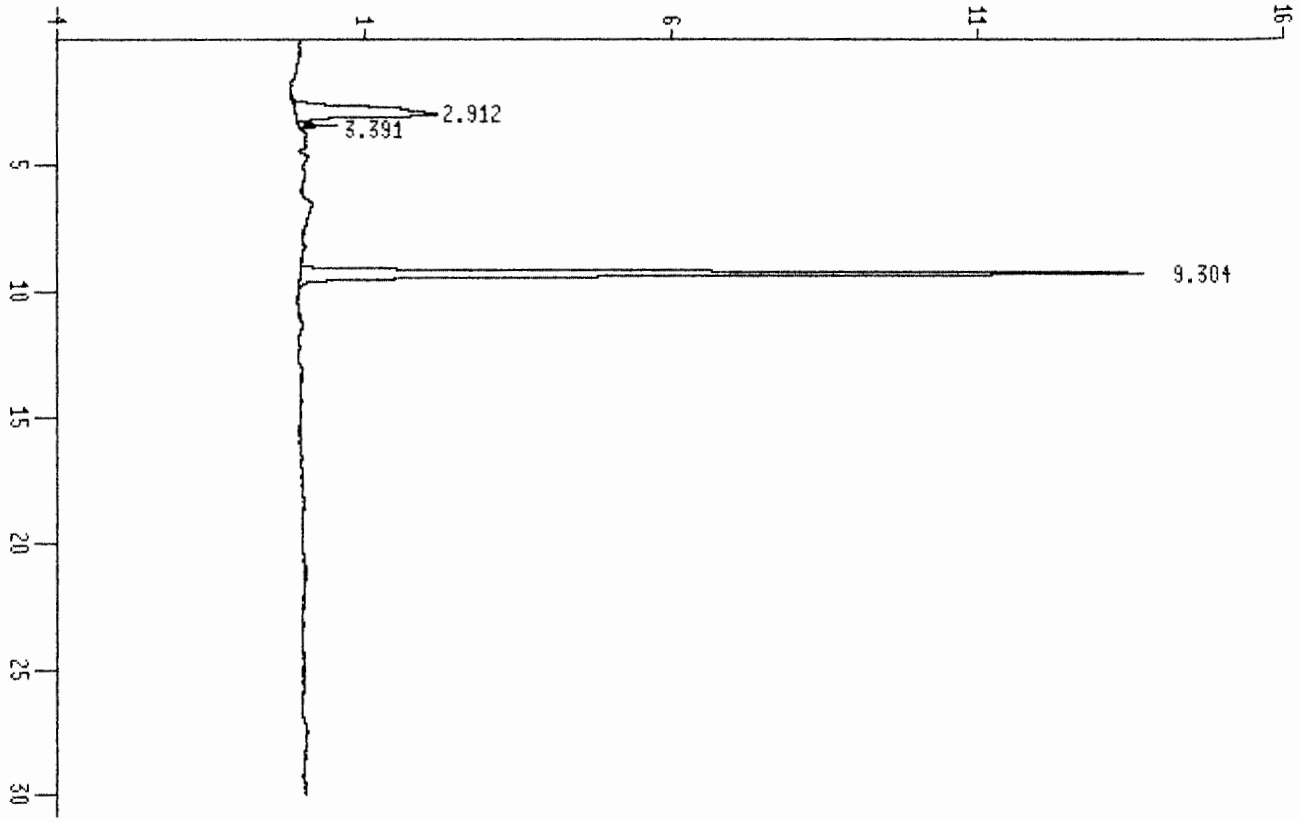
M. Bergmann
Analyst

Approved

99-3179-01 10-Bayo-6-99-01



1: LC A 254,4 550,100 of 8330A12A.D



End of plot. Time = 0.03 to 29.93 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-02	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-02	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A16A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

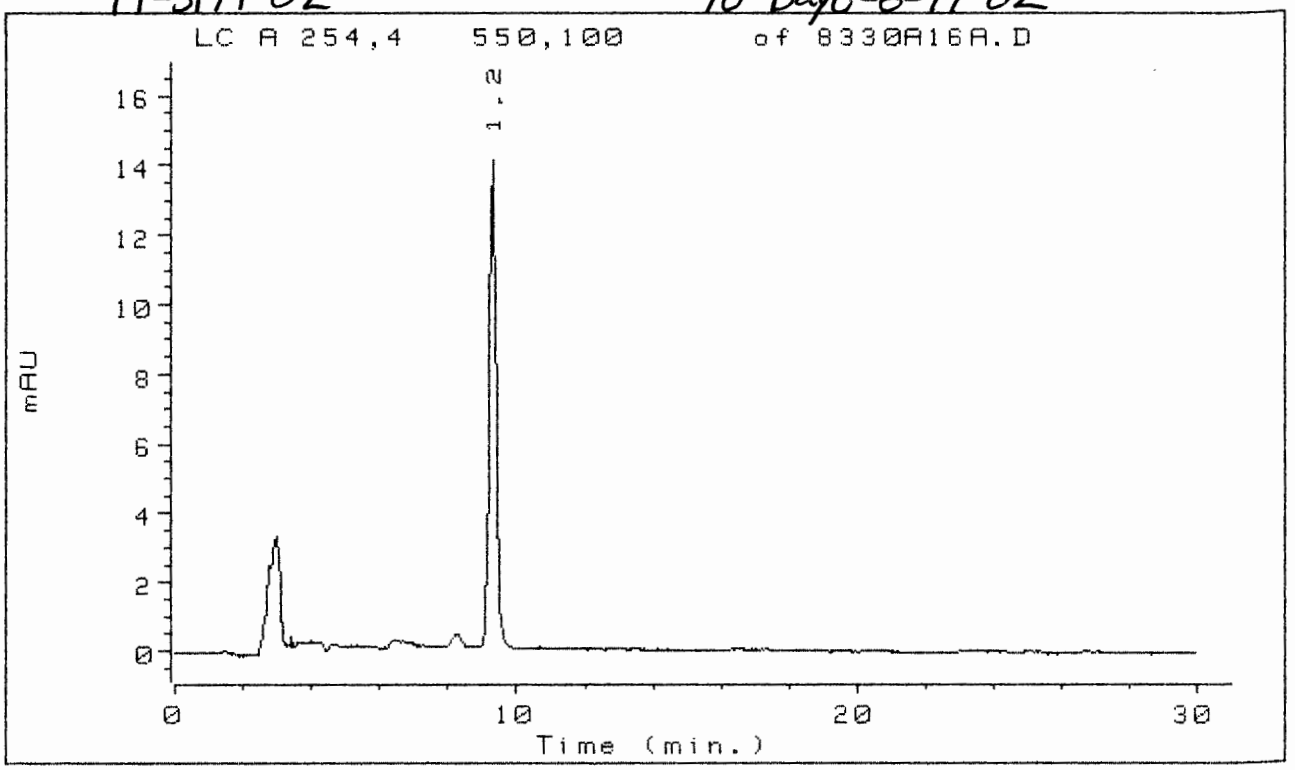
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 104 %

M. Bergmann
Analyst

Approved

99-3179-02 10-Bayo-6-99-02



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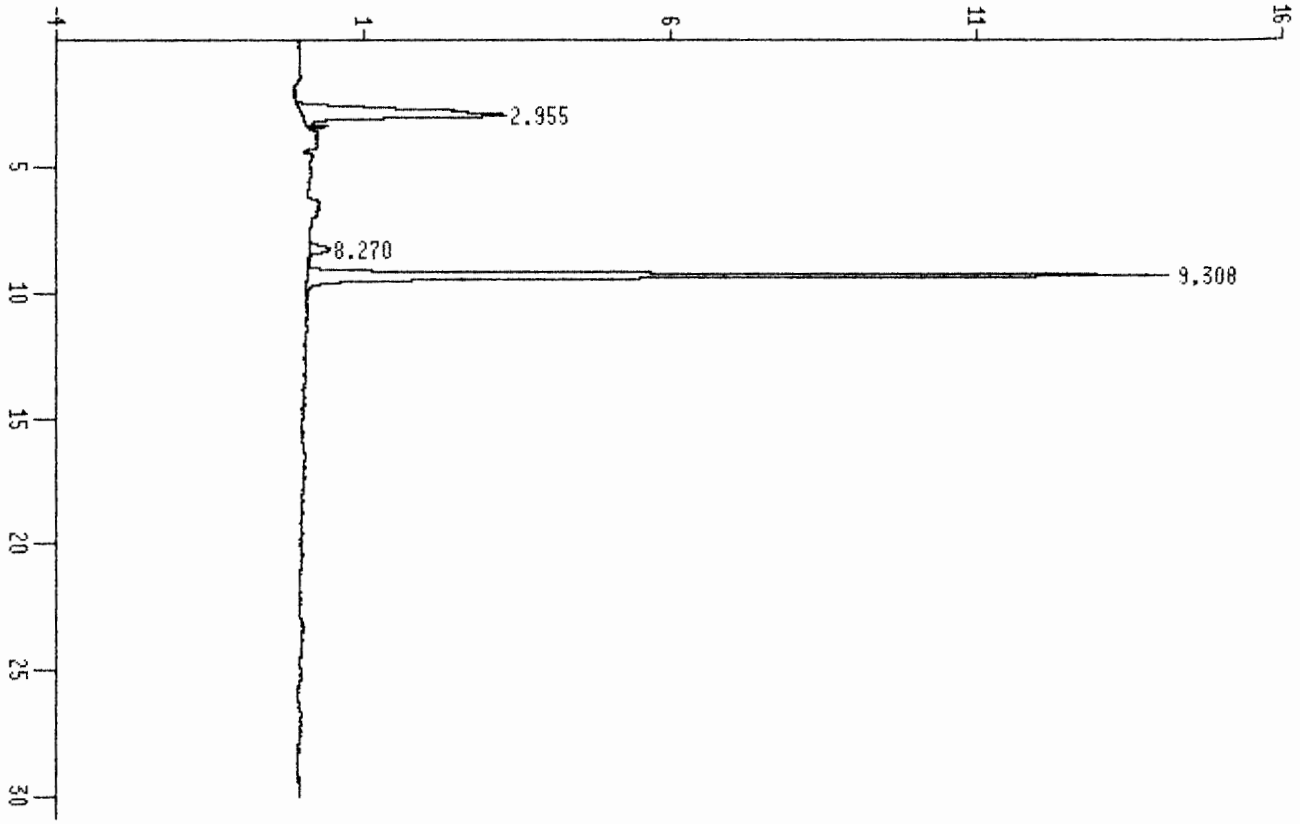


End of plot. Time = 0.01 to 29.95 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-03	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-03	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A17A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

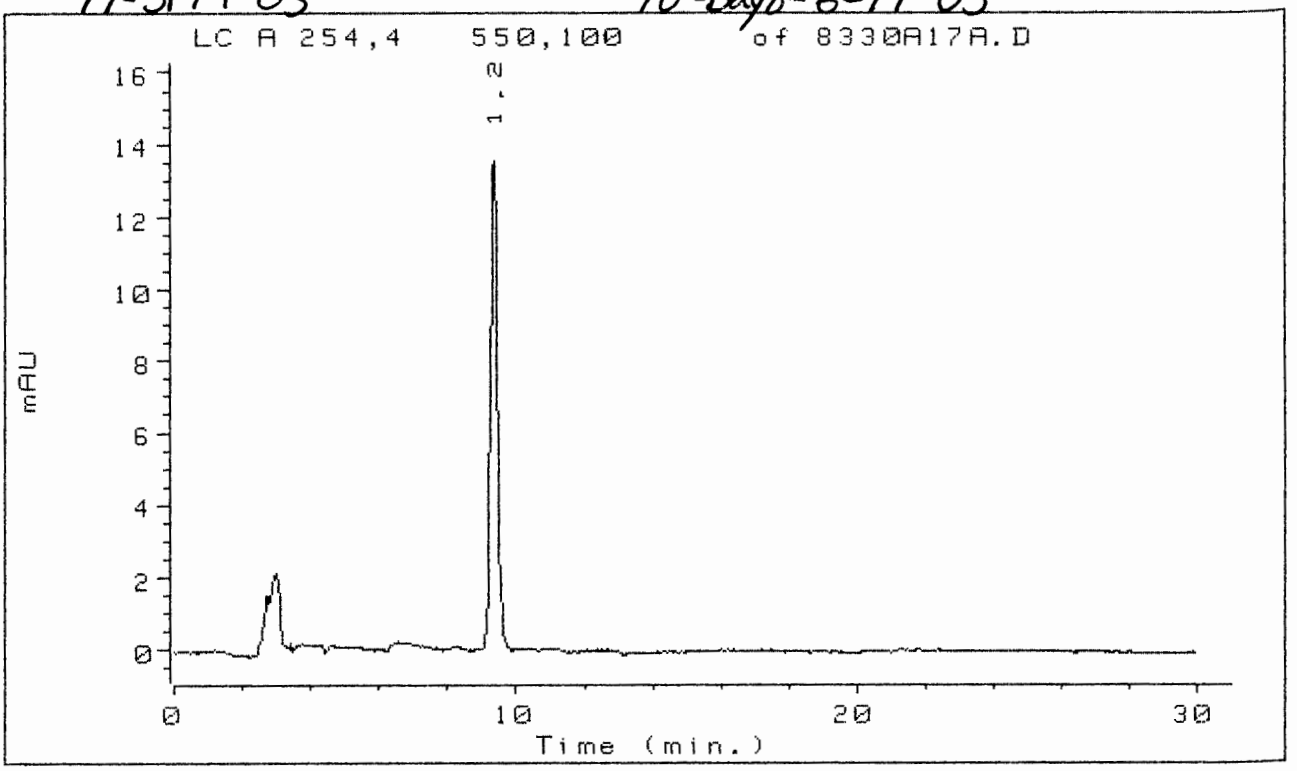
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 102 %

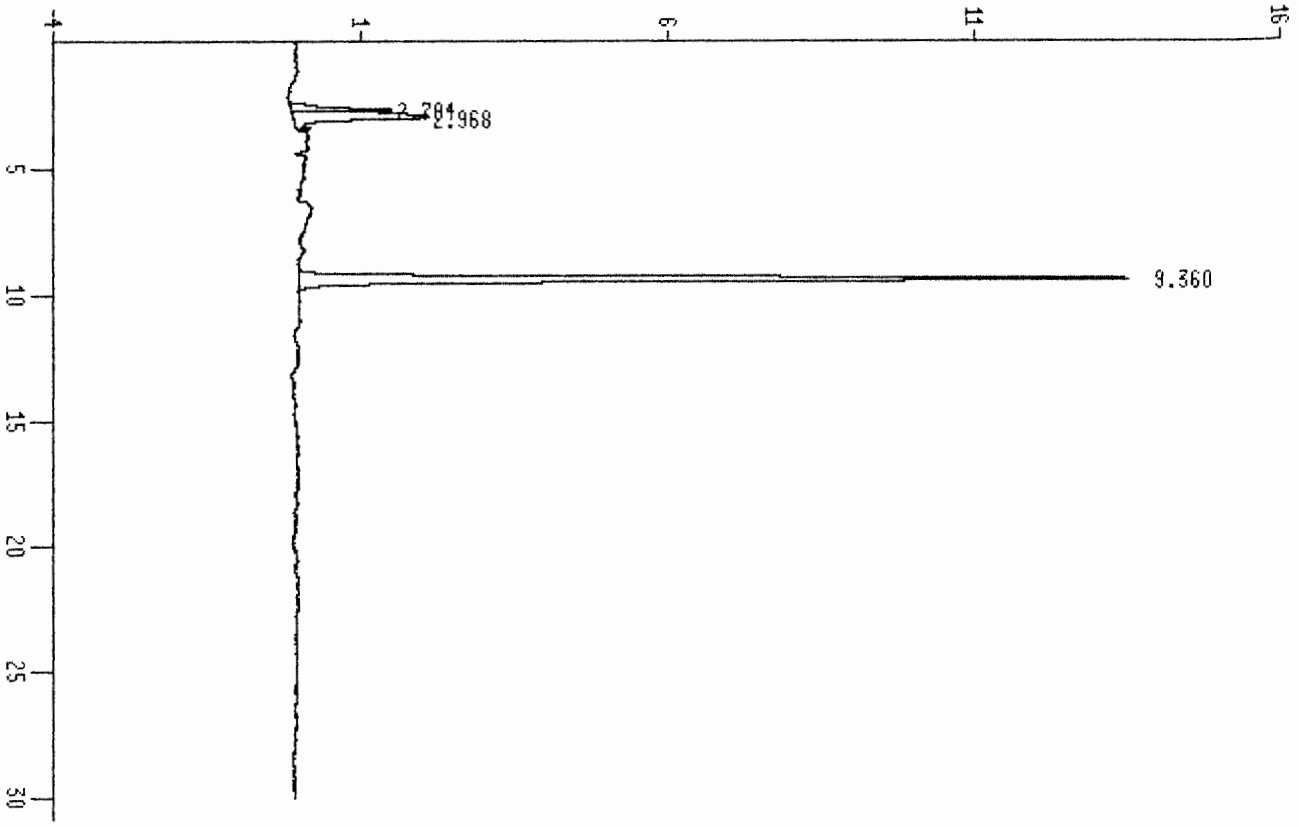
M Bergmann
Analyst

Approved

99-3179-03 10-Bayo-6-99-03



1: LC A 254,4 550,100 of 8330A17A.D



End of plot. Time = 0.01 to 29.95 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-04	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-04	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A18A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

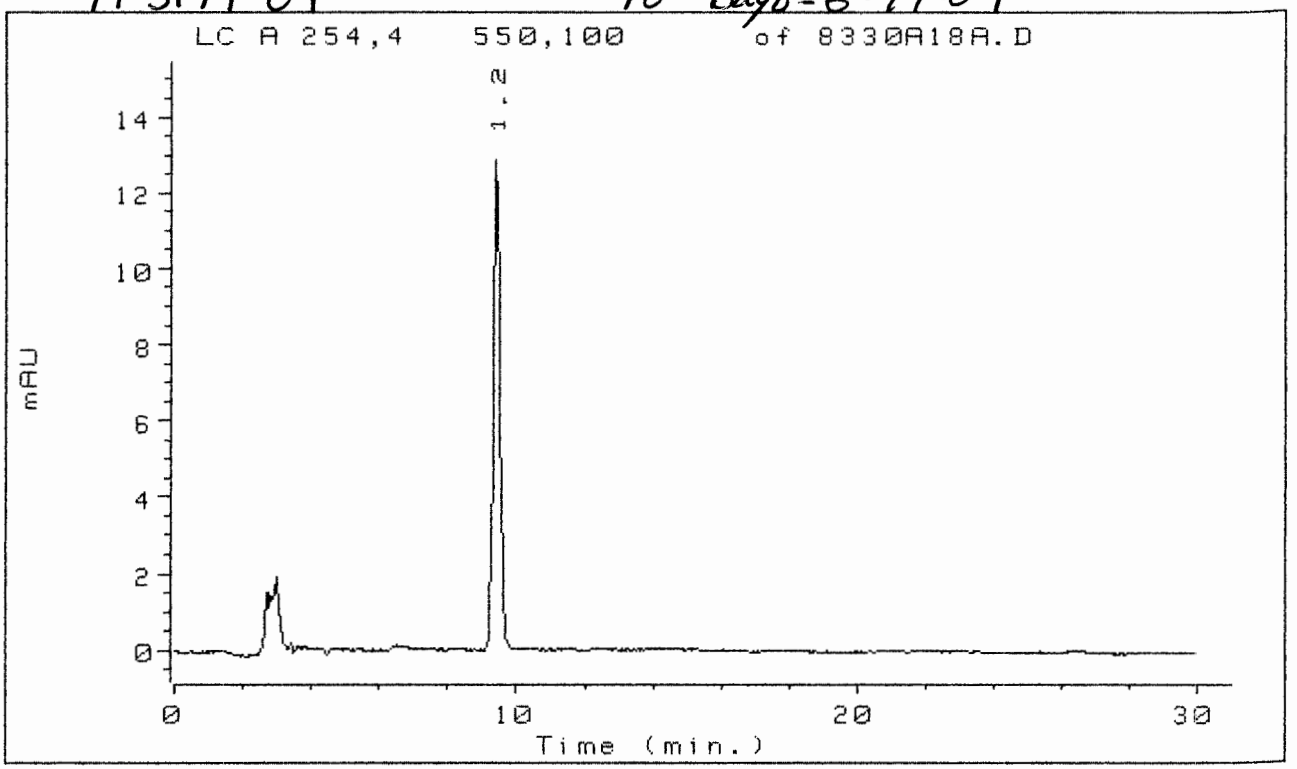
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 96.6 %

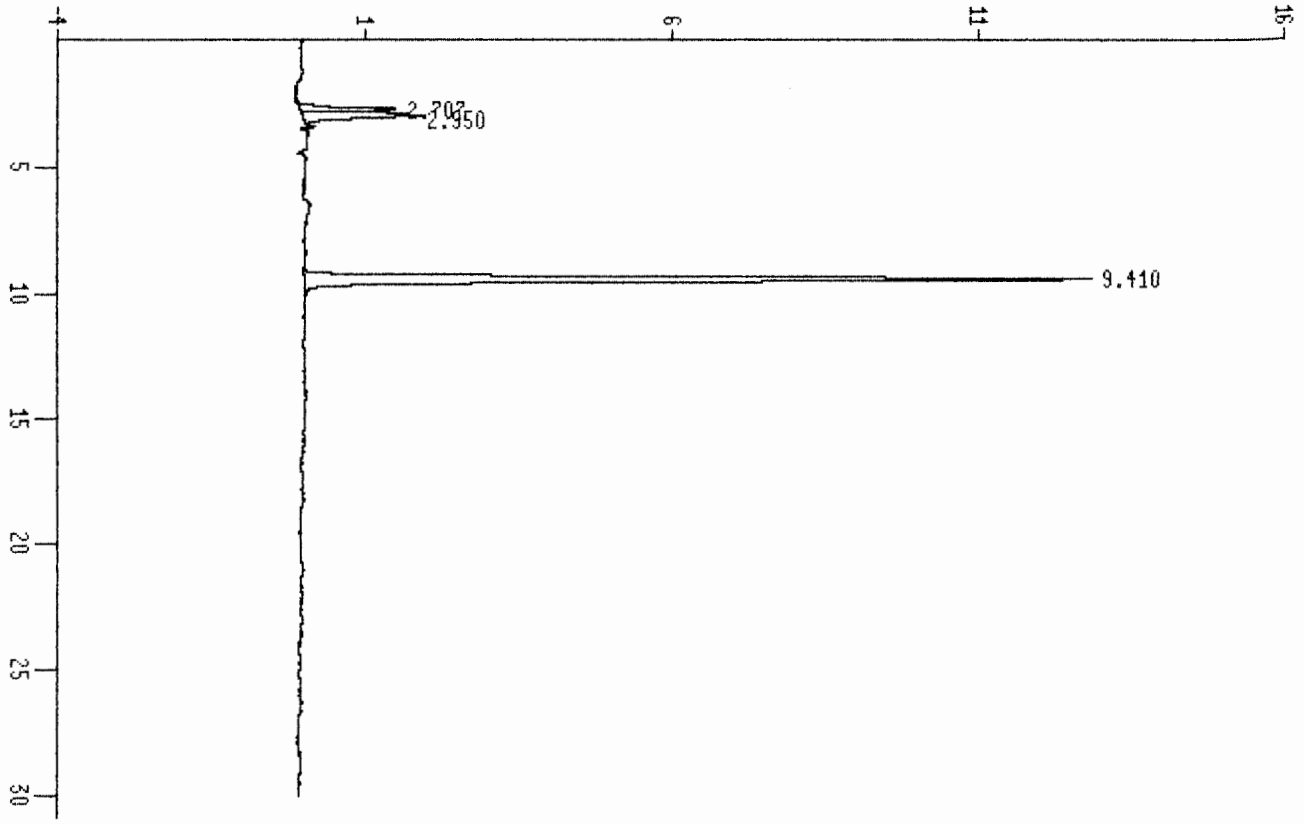
M. Bergmann
Analyst

Approved

99-3179-04 10 - Bayo-6-99-04



1: LC A 254,4 550,100 of 8330A18A.D



End of plot. Time = 0.00 to 29.94 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-05	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-05	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A19A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

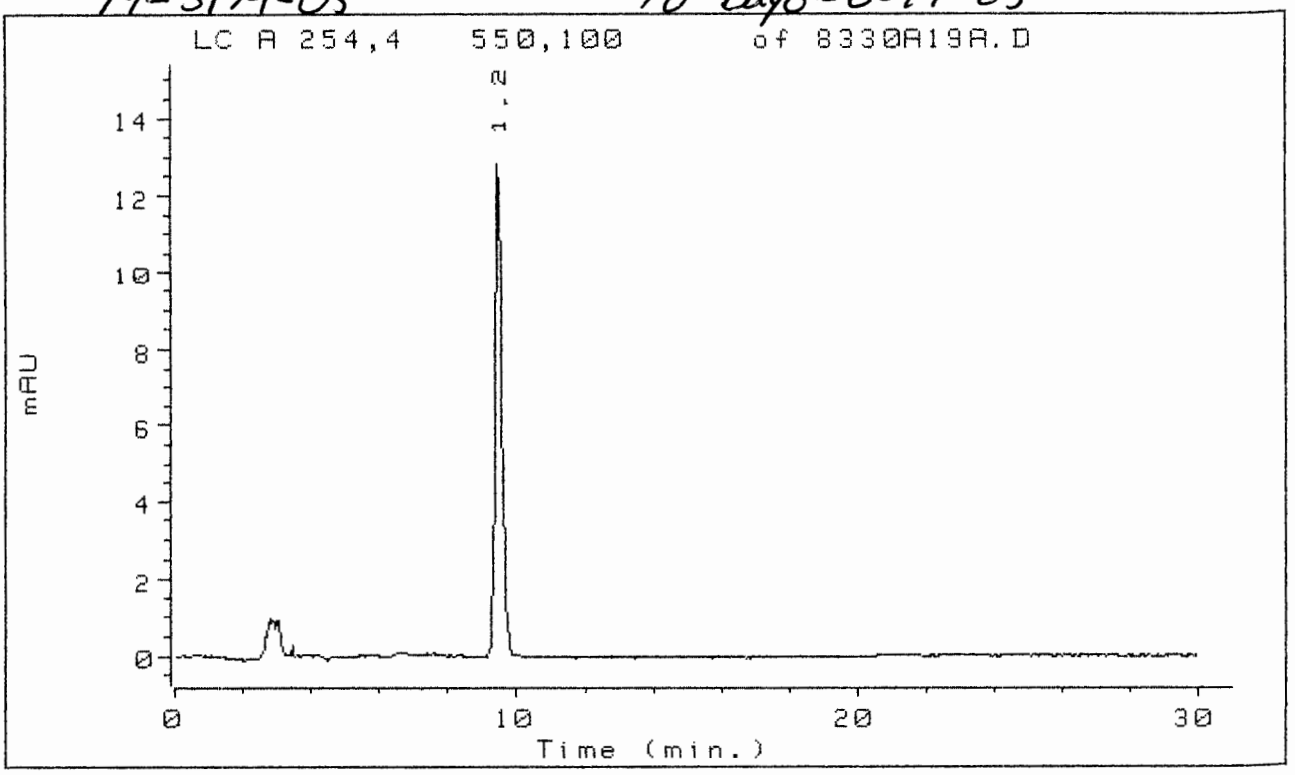
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 96.6 %

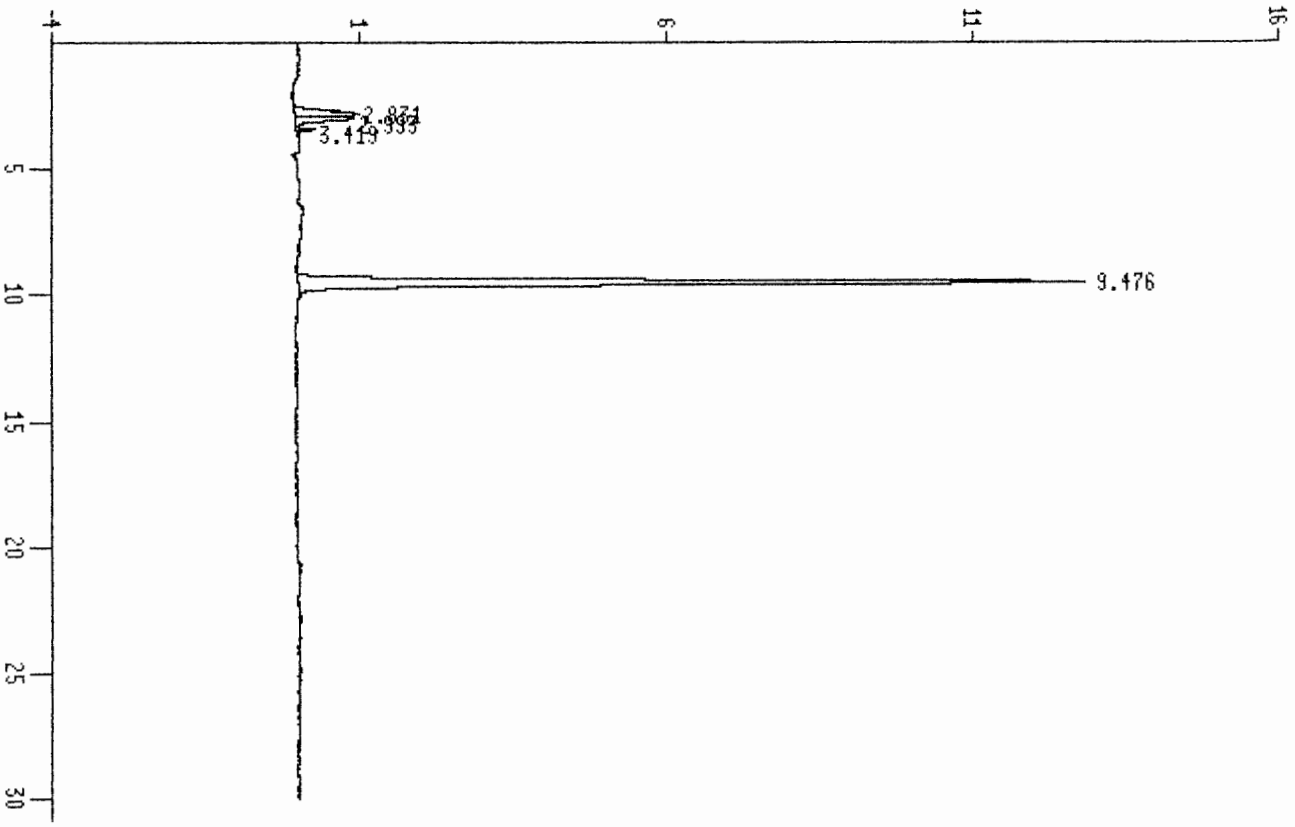
M. Bergmann
Analyst

Approved

99-3179-05 10-Bayo-6-99-05



1: LC A 254,4 550,100 of 8330A19A.D



End of plot. Time = 0.02 to 29.96 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: 10-Bayo-6-99-06	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: 99-3179-06	Lab Project Number	: 99-3179
Date Sampled	: 06-24-99	Dilution Factor	: 1
Date Received	: 06-30-99	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A20A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

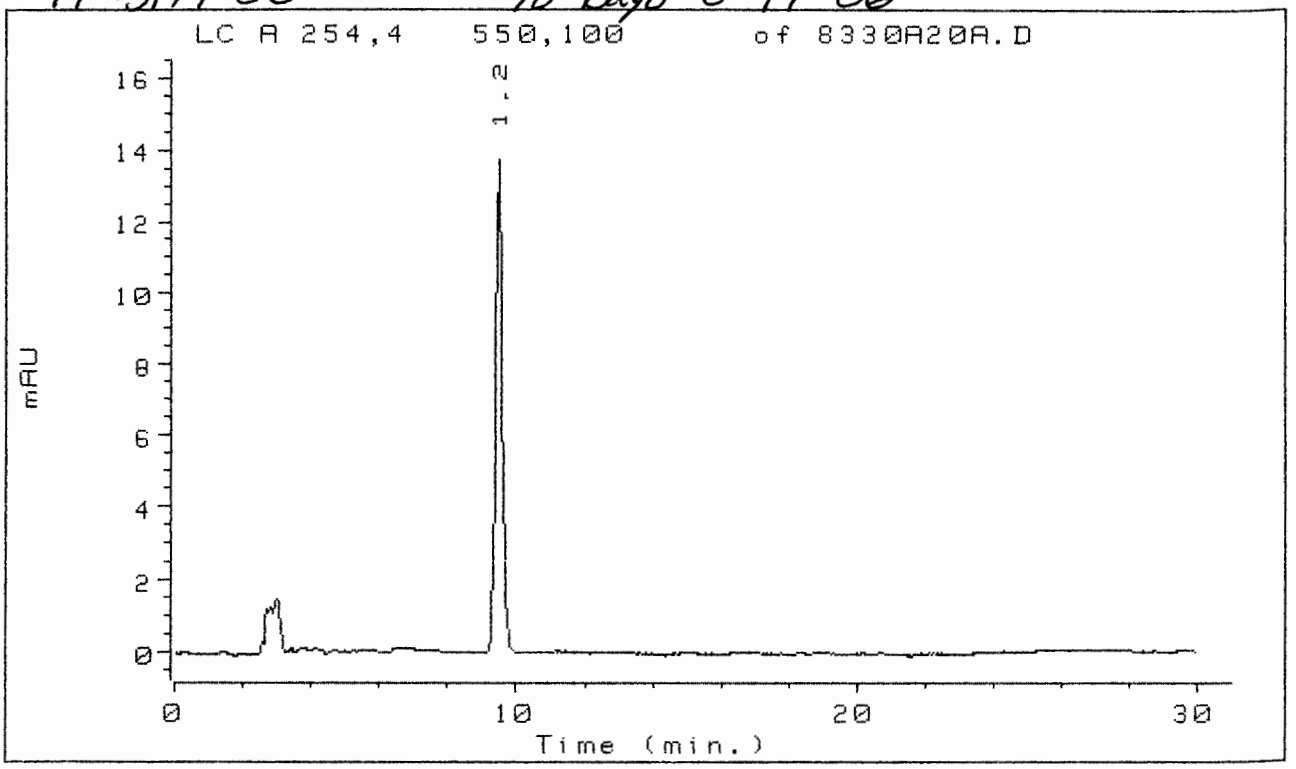
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 103 %

M Bergmann
Analyst

Approved

99-3179-06 10-Bayo-6-99-06



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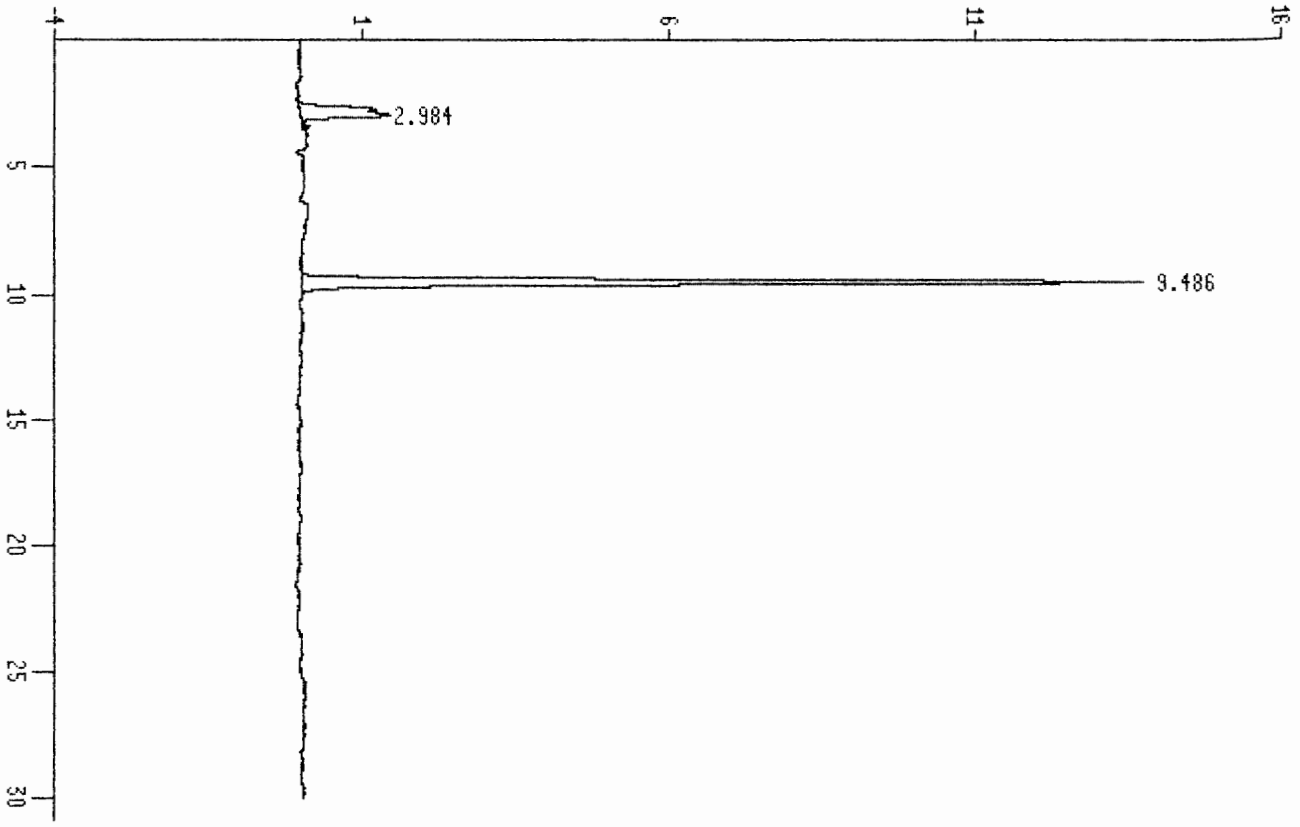


End of plot. Time = 0.03 to 29.94 minutes Chart speed = 0.33 cm/min

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Explosives

Client Sample ID.	: N/A	Client Project ID.	: NMED Bayo Canyon
Lab Sample No.	: SB8330070899	Lab Project Number	: 99-3179
Date Sampled	: N/A	Dilution Factor	: 1
Date Received	: N/A	Extraction Factor	: 10
Date Extracted	: 07-08-99	Matrix	: Soil
Date Analyzed	: 07-09-99	Method	: EPA SW846 8330
		Data File ID.	: 8330A11A.D

Compound	CAS Number	Concentration (mg/Kg)	PQL (mg/Kg)
HMX	2691-41-0	U	22
RDX	121-82-4	U	10
1,3,5-Trinitrobenzene	99-35-4	U	2.5
1,3-Dinitrobenzene	99-65-0	U	2.5
Tetryl	479-45-8	U	6.5
Nitrobenzene	98-95-3	U	2.6
2,4,6-Trinitrotoluene	118-96-7	U	2.5
4-Amino-2,6-Dinitrotoluene	19406-51-0	U	2.5
2-Amino-4,6-Dinitrotoluene	35572-78-2	U	2.5
2,6-Dinitrotoluene	606-20-2	U	2.6
2,4-Dinitrotoluene	121-14-2	U	2.5
2-Nitrotoluene	88-72-2	U	2.5
4-Nitrotoluene	99-99-0	U	2.5
3-Nitrotoluene	99-08-1	U	2.5

MDL = Method Detection Limit
PQL = Practical Quantitation Limit = 10 times MDL times dilution factor.
N/A = Not Applicable

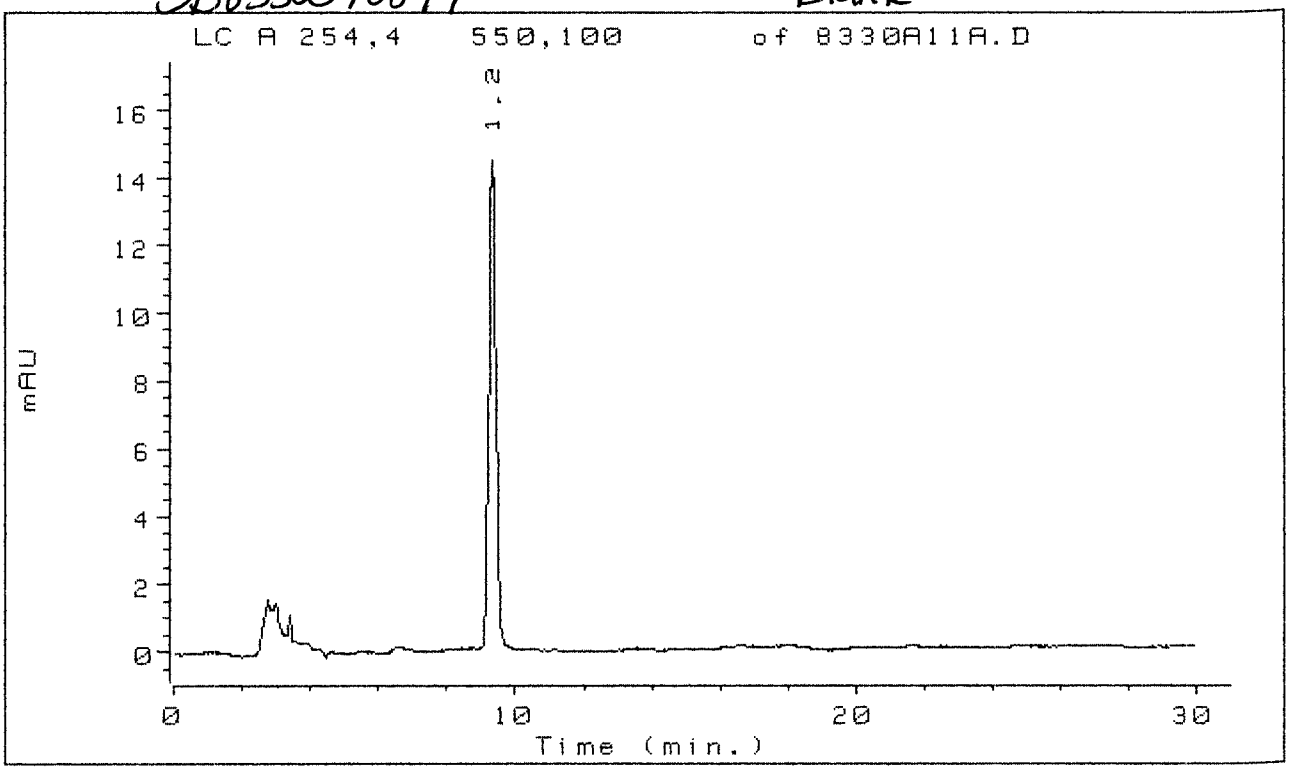
Qualifiers:
U = None detected
B = Also found in blank.

Surrogate Recovery
1,2 Dinitrobenzene 110 %

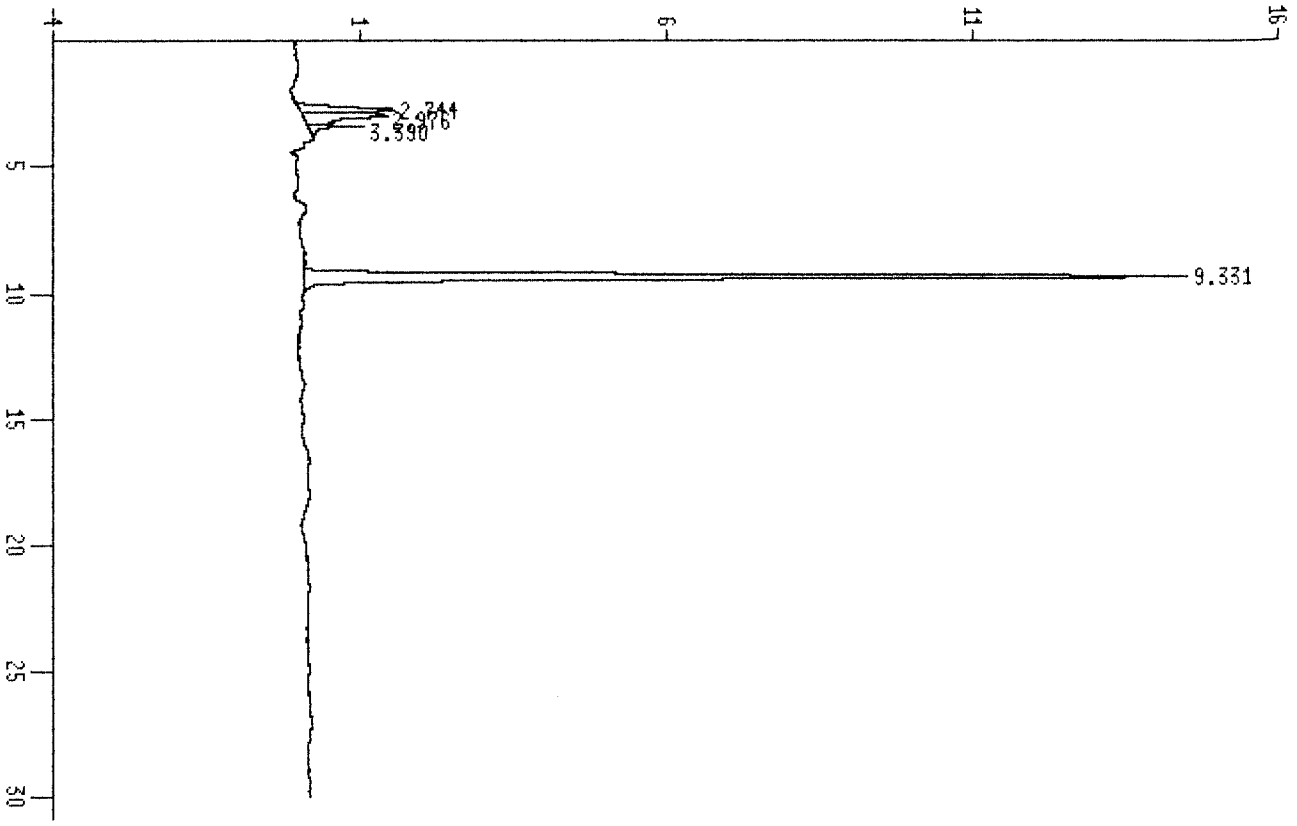
M. Bergmann
Analyst

Approved

SB8330070899 Blank



1: LC A 254,4 550,100 of 8330A11A.D



End of plot. Time = 0.03 to 29.94 minutes Chart speed = 0.33 cm/min

CHAIN OF CUSTODY

Chain of Custody

Lab ID# 3990464

CT&E Environmental Services Inc.

Anatech Division, 1200 Conrad Industrial Dr., Ludington, MI 49431-2681

Page 1

Phone: 616-843-1877 FAX: 616-845-9942

Results To: NMED-HRMB
2044-A Galisteo
Santa Fe, NM 87501

Attention: John Young

Telephone # (505) 827-1558 x 1036

FAX ? Yes (No) FAX # 827-1554

Invoice To: Attention: Steve Vigil
same address as above

Telephone # (505) 827-1557

Project Name: Bayo Canyon Sampling

Project Number:

State in which samples were collected: NM

REQUIRED COMPLETION DATE:

Sampled by: John Young / Eliza Frank

Work Authorization Signature: John R Young

This signature authorizes CT&E to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods: Line # 13 / 8330 (Nitro); Line # 31 / 23 TAL metals + CN; Line # 74 / Alpha Spec U234,5,8; Line #84 / Gamma Spec SCAN; Line #88 / KPA Total U; Line #89 / gross alpha & beta; Line #92 / Sr 89/90

Comment/Notes: Quote # NA
Oversight Bureau has separate COC and samples enclosed

2 - 16oz jars each sample

Sample ID	Client Sample ID	Sampling Location	Date 1999	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Line # 13 / 8330 (Nitro)	Line # 31 / 23 TAL metals + CN	Line # 74 / Alpha Spec U234,5,8	Line #84 / Gamma Spec SCAN	Line #88 / KPA Total U	Line #89 / gross alpha & beta	Line #92 / Sr 89/90	VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
1	10-Bayo-6-99-01	Bayo Canyon	6/24	0850	G	sed	N	NA	X	X	X	X	X	X	X							2	
2	10-Bayo-6-99-02	"		0920					X	X	X	X	X	X	X							2	
3	10-Bayo-6-99-03	"		0940					X	X	X	X	X	X	X							2	
4	10-Bayo-6-99-04	"		0945					X	X	X	X	X	X	X							2	
5	10-Bayo-6-99-05	"		1055					X	X	X	X	X	X	X							2	
6	10-Bayo-6-99-06	"		1105					X	X	X	X	X	X	X							2	

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
John R Young	6/24/99 1:00 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
	6-25-99				
Cooler Temp #1	**Cooler Temp #2**	**Cooler Temp #3**	**Cooler Temp #4**		

CT&E ENVIRONMENTAL SERVICES INC.

TERMS AND CONDITIONS

By accepting a proposal or price quotation, placing a work request, submitting a sample for testing, or using a report from CT&E Environmental Services Inc. (CT&E ESI) the Client agrees to the following terms and conditions:

SCOPE OF SERVICES

CT&E ESI performs testing services on samples submitted to or collected by CT&E ESI using environmental testing industry accepted protocols, practices and standards and as requested by Client. CT&E ESI provides a written report of analytical results.

Turn around time (TAT) is measured in business days (weekends and holidays excluded) and begins the day after the sample arrives at the laboratory. CT&E ESI's typical TAT is 10 business days. Expedited service may be available with advance consultation.

DUTIES OF CUSTOMER

Client will submit written work requests to CT&E ESI stating scope and timing of work, testing criteria and any other information necessary for CT&E ESI to perform the work. Client will designate a representative to transmit instructions, receive information, and make decisions.

Samples delivered to CT&E ESI must be preceded or accompanied by written disclosure of any hazardous substances known or suspected by Client. Samples suspected of containing a hazardous substance must be packaged, labeled, transported and delivered in accordance with applicable laws, with safety of utmost concern.

CT&E ESI reserves the absolute right to refuse delivery or revoke acceptance of any sample which in the sole judgment of CT&E ESI is of unsuitable volume, arrives in a leaking or damaged container, or may pose a risk in handling, transport or processing or for any other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to CT&E ESI by the Client.

PAYMENT TERMS & PRICE

For clients with approved credit, CT&E ESI will bill monthly for work completed during the previous month. Client agrees to pay invoices within thirty (30)days after receipt. Client agrees to pay a late charge on past due invoices at one and one-half percent (1.5%) per month (eighteen percent (18%) per annum (or such lower rate required by law. Client agrees to pay all expenses incurred by CT&E ESI, including attorney fees and court costs, to collect any past due amounts.

Fees are per CT&E ESI's current price list and are subject to change without prior notice. Fees include sample and shipping containers. CT&E ESI requires at least 3 business days notice to prepare and ship sample containers. Non-expedited shipping costs to the client are assumed by CT&E ESI. Rush delivery shipping charges are assumed by the Client. Results are delivered by mail or with special arrangements verbally, by fax or computer disk. Surcharges for rush analysis are: 1-2 Day TAT = 2 X Standard Fee; 3-5 Day TAT = 1.5 X Standard Fee.

LIMITED WARRANTY

CT&E ESI shall perform all services with reasonable care and diligence normal to the environmental testing industry. CT&E ESI's sole obligation hereunder shall be to re-perform services which are materially deficient without charge, so long as such deficiencies are reported in writing to CT&E ESI within thirty (30) days after the discovery thereof, but in no event later than one (1) year from the performance of the services by CT&E ESI.

By their very nature sampling, testing, and other CT&E ESI services are limited in scope and subject to expected measurement variability and possible interferences in the measurement process caused by the sample matrix. CT&E ESI makes no warranty that the tested sample is representative of the source from which the sample was taken or that any particular analysis can be performed on a particular sample. CT&E ESI may on occasion utilize subcontractors.

CT&E ESI MAKES NO EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ON THE SERVICES OF CT&E ESI. IN NO EVENT SHALL CT&E ESI BE LIABLE FOR ANY INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES. NOR SHALL CT&E ESI BE LIABLE IN ANY EVENT, INCLUDING ITS OBLIGATION TO RE-PERFORM, FOR ANY LOSSES, DAMAGES OR CLAIMS IN EXCESS OF THE AMOUNT PAIDTO CT&E ESI FOR THE SERVICES HEREUNDER.

CONFIDENTIALITY

CT&E ESI shall keep documents and information related to the Client confidential and will not disclose any such information to third parties without Client permission except in response to legal process after giving a copy of such process to Client.

FORCE MAJEURE

CT&E ESI shall have no liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, equipment failures, acts of authorities, or delays in transportation, mail or delivery services.

RECORDS/SAMPLE RETENTION

CT&E ESI will retain copies of data and reports for five years after which such documents will be destroyed. If Client requests additional copies of reports or data during the retention period, an additional charge will apply for the preparation and delivery of such reports.

Samples known or suspected to contain hazardous substances or determined by CT&E ESI to be incompatible with existing waste streams may be returned at Client's cost, to the Client upon completion of testing. Samples not destroyed in testing and not returned to the Client will be retained for 30 days after submittal of the final data report, and thereafter disposed of by CT&E ESI. Samples can be retained beyond 30 days at a monthly storage charge payable in advance.

CHOICE OF LAW

The agreement between Client and CT&E ESI shall be interpreted under the laws of the state in which CT&E ESI receives the samples.

AMENDMENT AND CONFLICTING PROVISIONS

These Terms and Conditions may be amended only by written agreement of CT&E ESI. These Terms and Conditions shall override conflicting provisions contained in Client purchase order or other standard form documents.