10 of 10
B

Rocky Mountain
Analytical Laboratory

ENTERED

ANALYTICAL RESULTS

FOR

U.S. GEOLOGICAL SURVEY

ENSECO-RMAL NO. 013918

MARCH 30, 1991

Reviewed by:

Randall Thompson

Lindsay Breyer

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Introduction

This report presents the analytical results as well as supporting information to aid in the evaluation and interpretation of the data and is arranged in the following order:

- Sample Description Information
- Analytical Test Requests
- Analytical Results
- Quality Control Report

Sample Description Information

The Sample Description Information lists all of the samples received in this project together with the internal laboratory identification number assigned for each sample. Each project received at Enseco - RMAL is assigned a unique six digit number. Samples within the project are numbered sequentially. The laboratory identification number is a combination of the six digit project code and the sample sequence number.

Also given in the Sample Description Information is the Sample Type (matrix), Date of Sampling (if known) and Date of Receipt at the laboratory.

Analytical Test Requests

The Analytical Test Requests lists the analyses that were performed on each sample. The Custom Test column indicates where tests have been modified to conform to the specific requirements of this project.

SAMPLE DESCRIPTION INFORMATION
for
U.S. Geological Survey

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
013918-0001-SA	MVMWK 03-2	AQUEOUS	08 MAR 91	09:53	09 MAR 91
013918-0002-SA	MVMWK 04-2	AQUEOUS	08 MAR 91	11:35	09 MAR 91
013918-0003-SA	MVMWK 05-2	AQUEOUS	08 MAR 91	11:50	09 MAR 91
013918-0004-SA	MVMWK 06-2	AQUEOUS	08 MAR 91	07:55	09 MAR 91

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ANALYTICAL TEST REQUESTS
for
U.S. Geological Survey

Lab ID: 013918	Group Code	Analysis Description	Custom Test?
0001 - 0004	A	Nitrate Plus Nitrite	N
		Halogenated Volatile Organics	N
		Halogenated Volatile Organics-2nd Column Analysis	N

Analytical Results

The analytical results for this project are presented in the following data tables. Each data table includes sample identification information, and when available and appropriate, dates sampled, received, authorized, prepared and analyzed. The authorization data is the date when the project was defined by the client such that laboratory work could begin.

Data sheets contain a listing of the parameters measured in each test, the analytical results and the Enseco reporting limit. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis, i.e. no correction is made for moisture content.

Enseco-RMAL is no longer routinely blank-correcting analytical data. Uncorrected analytical results are reported, along with associated blank results, for all organic and metals analyses. Analytical results and blank results are reported for conventional inorganic parameters as specified in the method. This policy is described in detail in the Enseco Incorporated Quality Assurance Program Plan for Environmental Chemical Monitoring, Revision 3.3, May, 1989.

The results from the Standard Enseco QA/QC Program, which generates data which are independent of matrix effects, is provided subsequently.

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Halogenated Volatile Organics

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 03-2
Lab ID: 013918-0001-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 20 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	T
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	ND	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	ND	ug/L	0.50	
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	86	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Garth Atkins Approved By: Jeff Lowry

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Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 03-2
Lab ID: 013918-0001-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 20 MAR 91

Note T : Preferred values unless footnoted on secondary column test.

ND = Not detected
NA = Not applicable

Reported By: Garth Atkins Approved By: Jeff Lowry

Enseco
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Halogenated Volatile Organics

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 04-2
Lab ID: 013918-0002-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 20 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	T
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	ND	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	ND	ug/L	0.50	
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	85	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Garth Atkins Approved By: Jeff Lowry

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Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 04-2
Lab ID: 013918-0002-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 20 MAR 91

Note T : Preferred values unless footnoted on secondary column test.

ND = Not detected
NA = Not applicable

Reported By: Garth Atkins Approved By: Jeff Lowry

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Halogenated Volatile Organics

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 05-2
Lab ID: 013918-0003-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	T
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	ND	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	0.64	ug/L	0.50	
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	90	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

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Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 05-2
Lab ID: 013918-0003-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Note T : Preferred values unless footnoted on secondary column test.

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

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Halogenated Volatile Organics-2nd Column Analysis

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 05-2
Lab ID: 013918-0003-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	0.64	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	1.2	ug/L	0.50	L
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	L
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	81	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

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Halogenated Volatile Organics-2nd Column Analysis (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 05-2
Lab ID: 013918-0003-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Note L : These components are not separable using this method and are therefore quantified together.

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

Enseco
A Corning Company

Halogenated Volatile Organics

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 06-2
Lab ID: 013918-0004-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	T
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	0.30	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	0.54	ug/L	0.50	
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	85	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

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Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 06-2
Lab ID: 013918-0004-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Note T : Preferred values unless footnoted on secondary column test.

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

Enseco
A Corning Company

Halogenated Volatile Organics-2nd Column Analysis

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 06-2
Lab ID: 013918-0004-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	1.1	
Bromomethane	ND	ug/L	6.0	
Dichlorodifluoromethane	ND	ug/L	9.0	
Vinyl chloride	ND	ug/L	0.60	
Chloroethane	ND	ug/L	3.0	
Methylene chloride	ND	ug/L	2.0	
Trichlorofluoromethane	ND	ug/L	5.0	
1,1-Dichloroethene	0.70	ug/L	0.70	
1,1-Dichloroethane	ND	ug/L	0.40	
trans-1,2-Dichloroethene	ND	ug/L	0.50	
Chloroform	0.70	ug/L	0.30	
1,2-Dichloroethane	ND	ug/L	0.50	
1,1,1-Trichloroethane	ND	ug/L	0.20	
Carbon tetrachloride	ND	ug/L	0.60	
Bromodichloromethane	ND	ug/L	0.50	
1,2-Dichloropropane	1.2	ug/L	0.50	L
trans-1,3-Dichloropropene	ND	ug/L	2.0	
Trichloroethene	ND	ug/L	0.60	
Dibromochloromethane	ND	ug/L	0.60	
1,1,2-Trichloroethane	ND	ug/L	0.20	
2-Chloroethyl vinyl ether	ND	ug/L	5.5	
Bromoform	ND	ug/L	1.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4	
Tetrachloroethene	ND	ug/L	0.40	
Chlorobenzene	ND	ug/L	1.2	
1,3-Dichlorobenzene	ND	ug/L	1.0	
1,2-Dichlorobenzene	ND	ug/L	0.50	
1,4-Dichlorobenzene	ND	ug/L	0.50	
Benzyl chloride	ND	ug/L	6.8	
Bromobenzene	ND	ug/L	5.0	
bis(2-Chloroisopropyl)-ether	ND	ug/L	10	
1-Chlorohexane	ND	ug/L	5.0	
4-Chlorotoluene	ND	ug/L	23	
Dibromomethane	ND	ug/L	5.0	L
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	
1,2,3-Trichloropropane	ND	ug/L	5.0	

Surrogate	Recovery	
Bromochloromethane	83	%

(continued on following page)

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

Enseco
A Corning Company

Halogenated Volatile Organics-2nd Column Analysis (CONT.)

Method 8010

Client Name: U.S. Geological Survey
Client ID: MVMWK 06-2
Lab ID: 013918-0004-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: NA Analyzed: 21 MAR 91

Note L : These components are not separable using this method and are therefore quantified together.

ND = Not detected
NA = Not applicable

Reported By: Bret Collins Approved By: Jeff Lowry

Enseco
A Corning Company

General Inorganics

Client Name: U.S. Geological Survey
Client ID: MVMWK 03-2
Lab ID: 013918-0001-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus Nitrite	ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected
NA = Not applicable

Reported By: Linda Sullivan Approved By: Dave Roberts

Enseco
A Coming Company

General Inorganics

Client Name: U.S. Geological Survey
Client ID: MVMWK 04-2
Lab ID: 013918-0002-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus Nitrite	51.8	mg/L	2.5	353.2	NA	21 MAR 91

ND = Not detected
NA = Not applicable

Reported By: Linda Sullivan Approved By: Dave Roberts

Enseco
A Corning Company

General Inorganics

Client Name: U.S. Geological Survey
Client ID: MVMWK 05-2
Lab ID: 013918-0003-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus Nitrite	ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected
NA = Not applicable

Reported By: Linda Sullivan Approved By: Dave Roberts

Enseco
A Corning Company

General Inorganics

Client Name: U.S. Geological Survey
Client ID: MVMWK 06-2
Lab ID: 013918-0004-SA
Matrix: AQUEOUS Sampled: 08 MAR 91 Received: 09 MAR 91
Authorized: 09 MAR 91 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus Nitrite	ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected
NA = Not applicable

Reported By: Linda Sullivan Approved By: Dave Roberts

Quality Control Results

The Enseco laboratories operate under a vigorous QA/QC program designed to ensure the generation of scientifically valid, legally defensible data by monitoring every aspect of laboratory operations. Routine QA/QC procedures include the use of approved methodologies, independent verification of analytical standards, use of duplicate Laboratory Control Samples to assess the precision and accuracy of the methodology on a routine basis, and a rigorous system of data review.

In addition, the Enseco laboratories maintain a comprehensive set of certifications from both state and federal governmental agencies which require frequent analyses of blind audit samples. Enseco - Rocky Mountain Analytical Laboratory is certified by the EPA under the EPA/CLP program for both Organic and Inorganic analyses, under the USATHAMA (U.S. Army) program, by the Army Corps of Engineers, and the states of Colorado, New Jersey, New York, Utah, and Florida, among others.

The standard laboratory QC package is designed to:

1) establish a strong, cost-effective QC program that ensures the generation of scientifically valid, legally defensible data

2) assess the laboratory's performance of the analytical method using control limits generated with a well-defined matrix

3) establish clear-cut guidelines for acceptability of analytical data so that QC decisions can be made immediately at the bench, and

4) provide a standard set of reportables which assures the client of the quality of his data.

The Enseco QC program is based upon monitoring the precision and accuracy of an analytical method by analyzing a set of Duplicate Control Samples (DCS) at frequent, well-defined intervals. Each DCS is a well-characterized matrix which is spiked with target compounds at 5-100 times the reporting limit, depending upon the methodology being monitored. The purpose of the DCS is not to duplicate the sample matrix, but rather to provide an interference-free, homogeneous matrix from which to gather data to establish control limits. These limits are used to determine whether data generated by the laboratory on any given day is in control.

Control limits for accuracy (percent recovery) are based on the average, historical percent recovery +/- 3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent difference + 3 standard deviation units. These control limits are fairly narrow based on the consistency of the matrix being monitored and are updated on a quarterly basis.

For each batch of samples analyzed, an additional control measure is taken in the form of a Single Control Sample (SCS). The SCS consists of a control matrix that is spiked with either representative target compounds or surrogate compounds appropriate to the method being used. An SCS is prepared for each sample lot for which the DCS pair are not analyzed.

Accuracy for DCS and SCS is measured by Percent Recovery.

$$\% \text{ Recovery} = \frac{\text{Measured Concentration}}{\text{Actual Concentration}} \times 100$$

Precision for DCS is measured by Relative Percent Difference (RPD).

$$\text{RPD} = \frac{\left| \text{Measured Concentration DCS1} - \text{Measured Concentration DCS2} \right|}{(\text{Measured Concentration DCS1} + \text{Measured Concentration DCS2})/2} \times 100$$

All samples analyzed concurrently by the same test are assigned the same QC lot number. Projects which contain numerous samples, analyzed over several days, may have multiple QC lot numbers associated with each test. The QC information which follows includes a listing of the QC lot numbers associated with each of the samples reported, DCS and SCS (where applicable) recoveries from the QC lots associated with the samples, and control limits for these lots. The QC data is reported by test code, in the order that the tests are reported in the analytical results section of this report.

Enseco
A Corning Company

QC LOT ASSIGNMENT REPORT
Volatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
013918-0001-SA	AQUEOUS	601-A	19 MAR 91-F9	19 MAR 91-F9
013918-0002-SA	AQUEOUS	601-A	19 MAR 91-F9	19 MAR 91-F9
013918-0003-SA	AQUEOUS	601-A	21 MAR 91-F9	21 MAR 91-F9
013918-0003-SA	AQUEOUS	601-A	21 MAR 91-F9	21 MAR 91-F9
013918-0004-SA	AQUEOUS	601-A	21 MAR 91-F9	21 MAR 91-F9
013918-0004-SA	AQUEOUS	601-A	21 MAR 91-F9	21 MAR 91-F9

Enseco
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DUPLICATE CONTROL SAMPLE REPORT
Volatile Organics by GC

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	AVG	Accuracy Average(%) DCS	Accuracy Limits	Precision (RPD) DCS	Precision Limit
Category: 601-A Matrix: AQUEOUS QC Lot: 19 MAR 91-F9 Concentration Units: ug/L								
1,1-Dichloroethane	5.0	5.51	5.89	5.70	114	80-130	6.7	20
Chloroform	5.0	5.35	5.84	5.60	112	80-120	8.8	20
Bromodichloromethane	10	8.20	8.96	8.58	86	80-120	8.9	20
Trichloroethene	5.0	5.81	6.17	5.99	120	70-120	6.0	20
Chlorobenzene	5.0	3.82	4.88	4.35	87	80-120	24	20
Category: 601-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 Concentration Units: ug/L								
1,1-Dichloroethane	5.0	4.77	4.89	4.83	97	80-130	2.5	20
Chloroform	5.0	5.10	5.23	5.16	103	80-120	2.5	20
Bromodichloromethane	10	8.07	8.19	8.13	81	80-120	1.5	20
Trichloroethene	5.0	4.94	4.82	4.88	98	70-120	2.5	20
Chlorobenzene	5.0	4.24	4.13	4.18	84	80-120	2.6	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Enseco
A Corning Company

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC

Analyte	Concentration Spiked	Measured	Accuracy(%) SCS	Limits
Category: 601-A Matrix: AQUEOUS QC Lot: 19 MAR 91-F9 QC Run: 19 MAR 91-F9 Concentration Units: ug/L				
Bromochloromethane	5.00	4.92	98	20-160
Category: 601-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 QC Run: 21 MAR 91-F9 Concentration Units: ug/L				
Bromochloromethane	5.00	4.22	84	20-160

Calculations are performed before rounding to avoid round-off errors in calculated results.

Enseco
A Corning Company

METHOD BLANK REPORT
Volatile Organics by GC

Test: 601-AFIR-A
Matrix: AQUEOUS
QC Lot: 19 MAR 91-F9 QC Run: 19 MAR 91-F9

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	1.1
Bromomethane	ND	ug/L	6.0
Dichlorodifluoromethane	ND	ug/L	9.0
Vinyl chloride	ND	ug/L	0.60
Chloroethane	ND	ug/L	3.0
Methylene chloride	ND	ug/L	2.0
Trichlorofluoromethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	0.70
1,1-Dichloroethane	ND	ug/L	0.40
trans-1,2-Dichloroethene	ND	ug/L	0.50
Chloroform	ND	ug/L	0.30
1,2-Dichloroethane	ND	ug/L	0.50
1,1,1-Trichloroethane	ND	ug/L	0.20
Carbon tetrachloride	ND	ug/L	0.60
Bromodichloromethane	ND	ug/L	0.50
1,2-Dichloropropane	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	2.0
Trichloroethene	ND	ug/L	0.60
Dibromochloromethane	ND	ug/L	0.60
1,1,2-Trichloroethane	ND	ug/L	0.20
2-Chloroethyl vinyl ether	ND	ug/L	5.5
Bromoform	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4
Tetrachloroethene	ND	ug/L	0.40
Chlorobenzene	ND	ug/L	1.2
1,3-Dichlorobenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	0.50
1,4-Dichlorobenzene	ND	ug/L	0.50
Benzyl chloride	ND	ug/L	6.8
Bromobenzene	ND	ug/L	5.0
bis(2-Chloroisopropyl)-ether	ND	ug/L	10
1-Chlorohexane	ND	ug/L	5.0
4-Chlorotoluene	ND	ug/L	23
Dibromomethane	ND	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0
1,2,3-Trichloropropane	ND	ug/L	5.0

METHOD BLANK REPORT
Volatile Organics by GC (cont.)

Test: 601-AFIR-A
Matrix: AQUEOUS
QC Lot: 21 MAR 91-F9 QC Run: 21 MAR 91-F9

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	1.1
Bromomethane	ND	ug/L	6.0
Dichlorodifluoromethane	ND	ug/L	9.0
Vinyl chloride	ND	ug/L	0.60
Chloroethane	ND	ug/L	3.0
Methylene chloride	ND	ug/L	2.0
Trichlorofluoromethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	0.70
1,1-Dichloroethane	ND	ug/L	0.40
trans-1,2-Dichloroethene	ND	ug/L	0.50
Chloroform	ND	ug/L	0.30
1,2-Dichloroethane	ND	ug/L	0.50
1,1,1-Trichloroethane	ND	ug/L	0.20
Carbon tetrachloride	ND	ug/L	0.60
Bromodichloromethane	ND	ug/L	0.50
1,2-Dichloropropane	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	2.0
Trichloroethene	ND	ug/L	0.60
Dibromochloromethane	ND	ug/L	0.60
1,1,2-Trichloroethane	ND	ug/L	0.20
2-Chloroethyl vinyl ether	ND	ug/L	5.5
Bromoform	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4
Tetrachloroethene	ND	ug/L	0.40
Chlorobenzene	ND	ug/L	1.2
1,3-Dichlorobenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	0.50
1,4-Dichlorobenzene	ND	ug/L	0.50
Benzyl chloride	ND	ug/L	6.8
Bromobenzene	ND	ug/L	5.0
bis(2-Chloroisopropyl)-ether	ND	ug/L	10
1-Chlorohexane	ND	ug/L	5.0
4-Chlorotoluene	ND	ug/L	23
Dibromomethane	ND	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0
1,2,3-Trichloropropane	ND	ug/L	5.0

METHOD BLANK REPORT
Volatile Organics by GC (cont.)

Test: 601-AFIR-2-A
Matrix: AQUEOUS
QC Lot: 21 MAR 91-F9 QC Run: 21 MAR 91-F9

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	1.1
Bromomethane	ND	ug/L	6.0
Dichlorodifluoromethane	ND	ug/L	9.0
Vinyl chloride	ND	ug/L	0.60
Chloroethane	ND	ug/L	3.0
Methylene chloride	ND	ug/L	2.0
Trichlorofluoromethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	0.70
1,1-Dichloroethane	ND	ug/L	0.40
trans-1,2-Dichloroethene	ND	ug/L	0.50
Chloroform	ND	ug/L	0.30
1,2-Dichloroethane	ND	ug/L	0.50
1,1,1-Trichloroethane	ND	ug/L	0.20
Carbon tetrachloride	ND	ug/L	0.60
Bromodichloromethane	ND	ug/L	0.50
1,2-Dichloropropane	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	2.0
Trichloroethene	ND	ug/L	0.60
Dibromochloromethane	ND	ug/L	0.60
1,1,2-Trichloroethane	ND	ug/L	0.20
2-Chloroethyl vinyl ether	ND	ug/L	5.5
Bromoform	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.4
Tetrachloroethene	ND	ug/L	0.40
Chlorobenzene	ND	ug/L	1.2
1,3-Dichlorobenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	0.50
1,4-Dichlorobenzene	ND	ug/L	0.50
Benzyl chloride	ND	ug/L	6.8
Bromobenzene	ND	ug/L	5.0
bis(2-Chloroisopropyl)-ether	ND	ug/L	10
1-Chlorohexane	ND	ug/L	5.0
4-Chlorotoluene	ND	ug/L	23
Dibromomethane	ND	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0
1,2,3-Trichloropropane	ND	ug/L	5.0

Enseco
A Corning Company

QC LOT ASSIGNMENT REPORT
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
013918-0001-SA	AQUEOUS	NO3-A	21 MAR 91-A	-
013918-0002-SA	AQUEOUS	NO3-A	21 MAR 91-A	-
013918-0003-SA	AQUEOUS	NO3-A	21 MAR 91-A	-
013918-0004-SA	AQUEOUS	NO3-A	21 MAR 91-A	-

Enseco
A Corning Company

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Limits	Precision (RPD) DCS	Precision Limit
Category: NO3-A Matrix: AQUEOUS QC Lot: 21 MAR 91-A Concentration Units: mg/L								
Nitrate as N	5.4	5.58	5.70	5.64	104	91-109	2.1	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

ENSECO ANALYTICAL SERVICES REQUEST FORM

13918-01

Special Handling (Circle as appropriate and explain in record 5)

Hazardous material

EQUIPMENT BLANK

MVMWK03-2 — Station Name

Field ID

USGS/WRD/NEW MEX — Field Office

KIRTLAND AFB / RP-SWMU'S — Project

BILL DAM — Collector

(505) 262-5341 — Phone (FTS)

Site Type (circle one)

SW - Surface Water
(GW) - Ground Water
ME - Meteorological
LK - Lake
ES - Estuary
SP - Spring
SS - Special Source

File Deposition* (Circle one)

Q - WATSTORE
X - Lab File

For Laboratory Use Only

Sample identification

MVMWK KAFB 03-2 — Station ID or Unique Number*

463536001 — Project Account #

Year*	Month*	Day*	Time*	Month	Day	Time	State Code*	District/ User Code*	County Code
1991	03	08	0953				NM	035	001

Begin Date — Composite End Date

Analysis level codes and schedules

	Sample Medium**	Geologic Unit	Analysis Status**	Analysis Source**	Hydrologic Condition**	Sample Type**	Hydrologic Event**
	6		(H) or 9	9		9	9

PARAMETER:	~~CHROMIUM, TOTAL~~	~~CHROMIUM, DISS~~	~~CHROMIUM HEXAVALENT TOTAL~~	~~CHROMIUM HEXAVALENT DISSOLVED~~	NITRATE + NITRITE	
METHOD:	~~SW3020/SW7191~~	~~SW3005/SW7191~~	~~SW 7196~~	~~SW 7196~~	E353.2	
PARAMETER:	~~URANIUM, GROSS ALPHA & GROSS BETA~~	VOX	~~TOC, TOX~~	~~NITROGLYCERIN & PETN~~		
METHOD:	~~A7HB, E900~~	SW5030/SW8010	~~SW9060, SW9020~~ E415.1	~~USATHAMA~~		
PARAMETER:						
METHOD:						

Chain-of-Custody Record

PROJECT NAME KIRTLAND AFB-IRP, SWMU'S PROJECT NO. 463536001 P.O. NO.

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Mitko Royal	FEDERAL EXPRESS	3/8/91	1410
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Time
	KMAL	03-09-91	0800
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Time

Comments (Only 50 characters stored in NWIS)

Record 5 EQUIPMENT BLANK

Record 6

Total number of sample bottles for this request: 4

SHIP TO:

Enseco-Rocky Mountain Analytical
4955 Yarrow Street
Arvada, CO 80002
(303) 421-6611
LINDSAY BREYER

ENSECO ANALYTICAL SERVICES REQUEST FORM

13918-02

Special Handling (Circle as appropriate and explain in record 5)

azardous material

SAMPLE

4VMWK04-2 — Station Name

USGS/WRD/NEW MEX — Field Office (Field ID)

KIRTLAND AFB RP-SWMU'S — Project

BILL DAM — Collector

(505) 262-5341 — Phone (FTS)

Site Type (circle one)

SW - Surface Water, (GW) - Ground Water, ME - Meteorological, LK - Lake, ES - Estuary, SP - Spring, SS - Special Source

File Deposition* (Circle one)

Q - WATSTORE

X - Lab File

For Laboratory Use Only

Sample identification

MVMWK ~~KAFB~~ 04-2 — Station ID or Unique Number*

463536001 — Project Account #

Year*	Month*	Day*	Time*	Month	Day	Time	State Code*	District/ User Code*	County Code
1991	03	08	1135	03	08	1145	NM	035	001
Begin Date				Composite End Date					

Analysis level codes and schedules

	Sample Medium**	Geologic Unit	(H) or 9 Analysis Status**	Analysis Source**	Hydrologic Condition**	Sample Type**	Hydrologic Event**
	6		(H) or 9	9		9	9
PARAMETER:	~~CHROMIUM, TOTAL~~	~~CHROMIUM, DISS~~		~~CHROMIUM HEXAVALENT TOTAL~~	~~CHROMIUM HEXAVALENT DISSOLVED~~		NITRATE + NITRITE
METHOD:	~~SW3020/SW7191~~	~~SW3005/SW7191~~		~~SW7198~~	~~SW7198~~		E353.2
PARAMETER:	~~URANIUM, GROSS ALPHA & GROSS BETA~~			VOX	~~TOC, TOX~~		~~NITROGLYCERINE/PETN~~
METHOD:	A711B, E900			SW5030/SW8010	~~SW7000, SW9020~~ E415.1		~~USATHAMA~~
PARAMETER:							
METHOD:							

Chain-of-Custody Record

PROJECT NAME KIRTLAND AFB-IRP, SWMU'S PROJECT NO. 463536001 P.O. NO.

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Mike Roybal	FEDERAL EXPRESS	3/8/91	1410
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Time
	RMAL	03-09-91	0800
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Time

Comments (Only 50 characters stored in NWIS)

Record 5 MOUNTAIN VIEW MONITORING WELL-K

Record 6

Total number of sample bottles for this request: 4

SHIP TO:

Enseco-Rocky Mountain Analytical
4955 Yarrow Street
Arvada, CO 80002
(303) 421-6611
LINDSAY BREYER

ENSECO ANALYTICAL SERVICES REQUEST FORM

13918-03

Special Handling (Circle as appropriate and explain in record 5)

azardous material

AMBIENT COND BLANK

4VMWK05-Z
Station Name

Field ID

USGS/WRD/NEW MEX
Field Office

KIRTLAND AFB
RP-SWMU'S
Project

BILL DAM
Collector

(505) 262-5341
Phone (FTS)

Site Type (circle one)

SW - Surface Water
(GW) - Ground Water
ME - Meteorological
LK - Lake
ES - Estuary
SP - Spring
SS - Special Source

File Deposition* (Circle one)
Q - WATSTORE
X - Lab File

For Laboratory Use Only

Sample identification

~~K A F B~~ 4VMWK05-Z
Station ID or Unique Number*

463536001
Project Account #

1991	03	08	1150				NM	035	001
Year*	Month*	Day*	Time*	Month	Day	Time	State Code*	District/ User Code*	County Code
Begin Date				Composite End Date					

Analysis level codes and schedules

	6		(H) or 9	9		9	9
	Sample Medium**	Geologic Unit	Analysis Status**	Analysis Source**	Hydrologic Condition**	Sample Type**	Hydrologic Event**
PARAMETER:	~~CHROMIUM, TOTAL~~	~~CHROMIUM, DISS~~	~~CHROMIUM HEXAVALENT TOTAL~~	~~CHROMIUM HEXAVALENT DISSOLVED~~			NITRATE + NITRITE
METHOD:	~~SW3020/SW7191~~	~~SW3005/SW7191~~	~~SW 7196~~	~~SW 7196~~			E353.2
PARAMETER:	~~URANIUM, GROSS ALPHA & GROSS BETA~~		VOX	~~TOC, TOX~~			~~NITROGLYCERINE/PETN~~
METHOD:	~~A711B, E900~~		SW5030/SW8010	~~SW9060, SW9020~~ EXHS.1			~~USATHAMA~~
PARAMETER:							
METHOD:							

Chain-of-Custody Record

PROJECT NAME KIRTLAND AFB-IRP, SWMU'S PROJECT NO. 463536001 P.O. NO.

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Mike Royal	FEDERAL EXPRESS	3/8/91	1410
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Time
	RMAL	03-09-91	0800
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Time

Comments (Only 50 characters stored in NWIS)

Record 5 AMBIENT CONDITION BLANK

Record 6

Total number of sample bottles for this request: 4

SHIP TO:

Enseco-Rocky Mountain Analytical
4955 Yarrow Street
Arvada, CO 80002
(303) 421-6611
LINDSAY BREYER

ENSECO ANALYTICAL SERVICES REQUEST FORM

13918-04

Special Handling (Circle as appropriate and explain in record 5)

azardous material

TRIP BLANK

MVMWK06-Z
Station Name

Field ID

USGS/WRD/NEW MEX
Field Office

KIRTLAND AFB
RP-SWMU'S
Project

BILL DAM
Collector

(505) 262-5341
Phone (FTS)

Site Type (circle one)

SW - Surface Water
(GW) - Ground Water
ME - Meteorological
LK - Lake
ES - Estuary
SP - Spring
SS - Special Source

File Deposition*
Circle one)
Q - WATSTORE
X - Lab File

For Laboratory Use Only

Sample identification

MVMWK06-Z
~~KAFB~~
Station ID or Unique Number*

463536001
Project Account #

1991	03	08	0755				NM	035	001
Year*	Month*	Day*	Time*	Month	Day	Time	State Code*	District/ User Code*	County Code
Begin Date				Composite End Date					

Analysis level codes and schedules

	6		(H) or 9	9		9	9
	Sample Medium**	Geologic Unit	Analysis Status**	Analysis Source**	Hydrologic Condition**	Sample Type**	Hydrologic Event**
PARAMETER:	~~CHROMIUM, TOTAL~~	~~CHROMIUM, DISS~~	~~CHROMIUM HEXAVALENT TOTAL~~	~~CHROMIUM HEXAVALENT DISSOLVED~~		NITRATE + NITRITE	
METHOD:	~~SW3020/SW7191~~	~~SW3005/SW7191~~	~~SW 7196~~	~~SW 7196~~		E353.2	
PARAMETER:	~~URANIUM, GROSS ALPHA & GROSS BETA~~		VOX	~~TOC, TOX~~		~~NITROGLYCERIN & PETN~~	
METHOD:	~~A7HB, E900~~		SW5030/SW8010	~~SW9060, SW9020~~ EAIS,I		~~USATHAMA~~	
PARAMETER:							
METHOD:							

Chain-of-Custody Record

PROJECT NAME KIRTLAND AFB-IRP, SWMU'S PROJECT NO. 463536001 P.O. NO.

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Melissa Reyland	FEDERAL EXPRESS	3/8/91	1410
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Time
	BMAL	03-09-91	0800
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Time

Comments (Only 50 characters stored in NWIS)

Record 5 TRIP BLANK

Record 6

Total number of sample bottles for this request: 4

SHIP TO:

Enseco-Rocky Mountain Analytical
4955 Yarrow Street
Arvada, CO 80002
(303) 421-6611
LINDSAY BREYER