

40-8907  
from Jimmy  
2/12/96  
JMT

## GROUND WATER QUALITY BUREAU SUPERFUND OVERSIGHT

Harold Runnels Building, Suite N2300  
1190 St. Francis Drive  
Santa Fe, New Mexico 87502  
(505)827-2911  
Fax: (505)827-2965

results of 2 separate  
studies.

### FAX TRANSMISSION COVER SHEET

Date: Feb. 8 '96  
To: V. Colter Bradley / NRC  
Telephone No.: 301-415-7000  
Fax No.: 301-415-5399  
Sender: David Trujillo / NMED  
505-827-2899

You should receive 21 page(s), including this cover sheet. If you do not receive all the page(s), please call (505)827-2911.

NL051

Dear Mr. Colter - Bradley,

Comments: I had suggested a nitrogen "isotope" study at the site (UNC), but EPA's contractor Jacobs said "it would be useless." There was never a mention of this study. Maybe NRC can find the results of this investigation. An isotope study would provide more info.  
As far as our shallow soil study goes, we have not contacted UNC regarding study. Please contact NMED if you contact UNC regarding the NMED sub data on nitrogen collected at the UNC Churchman site. DMT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VI1301 ELM STREET  
DALLAS, TEXAS 75270

October 19, 1982

Mr. Rick Raymondi  
New Mexico Environmental Improvement Division  
P.O. Box 968  
Santa Fe, New Mexico 87503

Dear Rick:

Enclosed are the following materials for the nitrogen isotope sample collection.

- serialized sample tags
- serialized chain of custody records
- sample seals
- packing lists
- sample packing information

As soon as you know the date of sample shipment and airbill number, please call me. My number is 214-767-9770.

Distribution of the packing list is described on the bottom of the page. The white copy must be sent to the address in the upper left corner. The yellow copy should be sent to me. The pink and gold copies accompany the sample shipment.

Please call me if you have any questions concerning this material.

Sincerely,

*Karen Solari*Karen Solari  
Environmental Engineer (SES-SH)

Enclosures

RECEIVED

OCT 21 1982

EID: WATER  
POLLUTION CONTROL

## ROUTING AND TRANSMITTAL SLIP

Date

12/22

To: (Name, office symbol, room number,  
mailing Agency/Post)

Initials

Date

1. Ron Conrad, NMEID

Initials	File	Note and Initials
Approved	For Distribution	For Distribution
Disapproved	For Distribution	For Distribution
Comment	For Distribution	For Distribution
Exemption	For Distribution	For Distribution
Justify	For Distribution	For Distribution

## REMARKS

Initial nitrogen isotope  
info. from UNC samples.  
More info. to follow as  
received.

DO NOT use this form as a RECORD of approvals, concurrences, disapprovals,  
clearances, and similar actions

From: (Name, org symbol, Agency/Post)

Room No. — Size

Larry Wright

Phone No.

5041-382

OPTIONAL FORM 41 (Rev. 7-76)

\* GPO : 1990 O - 211-158 (7)

Prescribed by GSA  
FPMR 41 CFR 101-11.606

Case # 4410

A. Nevissi  
12/13/82Procedure for measurement of  $^{15}\text{N}$   
RECEIVED

Initially, all the samples were filtered to eliminate the suspended particulate matter. Then, the concentrations of inorganic nitrogen compounds were measured, using auto analyzer, to estimate the quantity of each sub-sample required for mass spectrometric analysis. Depending on the concentration of nitrogen compounds, water samples ranging from few ml to 300 ml were evaporated by freeze-drying technique to prevent loss of volatile nitrogen compounds. The residue was then transferred on glass fiber filters for mass spectrometric measurement. For measurement of  $^{15}\text{N}$  in nitrate fraction, the samples were boiled with  $\text{NaOH}$ ,  $\text{pH} \geq 12$ , for a long period of time to hydrolyze the amino-acids and to drive the  $\text{NH}_4$  out of the solution.

The samples were analyzed with a Uthe Technology International model 100C precision mass analyzer using the method of Günther, Floss, and Simon (1966)\*. In addition to the samples, four standards and four blanks were also measured, Table 1. The results show that almost all the samples have elevated value of  $^{15}\text{N}$  when compared with the atmospheric ratios [Atmospheric Ratios  $^{14}\text{N} = 99.635\%$  and  $^{15}\text{N} = 0.365\%$ , Nier (1950)\*\*]. No detectable amount of  $^{15}\text{N}$  were found in the blanks. Due to very low concentrations of nitrogen compounds in two of the samples, no reliable value of  $^{15}\text{N}$  was measured in these two samples. The reliable range of the mass spectrometer is between 5 and 40  $\mu\text{g-at}$  nitrogen.

## References

\*Günther, H., H.G. Floss, and H. Simon. 1966. Ein Vereinfachtes Verfahren zur  $^{15}\text{N}$ -Bestimmung. Z. Analyt. Chem. 218:401-408.

\*\*Nier, A.O. Phys. Rev. 77(1950) pp. 789.

A. Nevissi  
12/13/82

RECEIVED

DEC 27 1982

EID: WATER  
POLLUTION CONTROL

Table 1. Nitrogen Isotope  $^{15}\text{N}$  measurements.

ID		$^1\mu\text{g-at/l} = \mu\text{moles}$				
Sample No.	Lab No.	$\text{PO}_4$	$\text{NO}_3$	$\text{NO}_2$	$\text{NH}_4$	At $^{15}\text{N}$
UNC-513AD	1	0.48	14,079	6.8	1.2	0.414
UNC-401	2	0.11	4,786	2.2	150	0.385
Brown pit	3	0.53	4,497	1.2	268,327	0.467
North Pond	4	0.00	608	14.6	190,320	0.412
$^2\text{UNC-323-A}$	$^2\text{5}$	0.41	2,502	18.6	35,104	0.385
$^1\text{UNC-323-A}$	$^1\text{5}$	--	--	--	--	0.415
$^3\text{UNC-323-A}$	$^3\text{5(NO3)}$	--	--	--	--	0.402
UNC-ID	6	0.52	3,943	32.6	64.8	0.432
GW-2(UNC)	7	0.30	2,262	1.2	12.4	0.435
GW-4(UNC)	8	0.34	22,202	9.9	112	0.410
UNC-106	9	0.32	6,035	17.4	15.2	0.405
UNC-110	10	0.76	6,322	19.5	11.8	0.401
UNC 604	11	0.29	5,175	16.4	817.8	0.431
$^1\text{124}$	$^1\text{12}$	1.60	641	70.7	17,808	0.434
$^3\text{124}$	$^3\text{12(NO3)}$	--	--	--	--	0.406
129	13	0.65	41,714	7.4	2.6	0.377
GW-3	14	0.93	5,836	13.0	3.1	0.416
134	15	0.33	684	19.8	6.0	0.432
127	16	0.66	4,717	6.8	5.3	0.408
KMEID	17	0.74	9,480	17.4	938	0.418
SOGA	18	1.27	137	7.8	8.4	ND
Spring	19	0.49	4,453	3.7	1.6	0.387
Uu9	20	2.31	24	2.8	39.4	ND
Am-8	21	1.14	2,967	3.4	1.4	0.414
$^2\text{Am-12}$	$^2\text{22}$	1.04	13,461	4.3	0.5	0.409
$^1\text{Am-12}$	$^1\text{22}$	--	--	--	--	0.437
KMIS-STP	23	4.81	627	1.9	1.01	0.432
11.74 $\mu\text{g-at } ^{15}\text{NH}_4\text{cl}$	--	--	--	--	--	94.86
8.7 $\mu\text{g-at } ^{15}\text{NH}_4\text{cl}$	--	--	--	--	--	93.10
36.70 $\mu\text{g-at } ^{14}\text{NH}_4\text{cl}$	--	--	--	--	--	0.340
11.38 $\mu\text{g-at } ^{14}\text{NH}_4\text{cl}$	--	--	--	--	--	0.836
Filter blank	--	--	--	--	--	ND
Filter blank	--	--	--	--	--	ND
Filter blank	--	--	--	--	--	ND
Filter blank	--	--	--	--	--	ND

$^1$ For conversion of  $\mu\text{g-at/l}$  to  $\text{mg/l}$  or  $\text{ppm}$  multiply the values in the table by the following factors: *A.N.*

$\text{PO}_4 \mu\text{g-at/l} \times 94.975 \times 10^{-3} = \text{mg/l or ppm}$   
 $\text{NO}_3 \mu\text{g-at/l} \times 62.007 \times 10^{-3} = \text{mg/l or ppm}$   
 $\text{NO}_2 \mu\text{g-at/l} \times 46.007 \times 10^{-3} = \text{mg/l or ppm}$   
 $\text{NH}_4 \mu\text{g-at/l} \times 18.040 \times 10^{-3} = \text{mg/l or ppm}$

*A. Nevissi*  
12/13/82

-2-

## Table 1 (cont'd)

2\_15N measurement in duplicate samples

3\_15N measurement in Nitrate only.

4-No-reliable results due to very low concentration of nitrogen compounds in the sample.

A.N.

A. Neviss

12/13/82

DRAFT

• EP1 EP2  
• EM EP3

• WP3  
• WP2  
• WP1

UNC  
Discharge  
Kerr M.  
Discharge



PIPELINE  
PUMP

12

1  
2  
3  
Hile

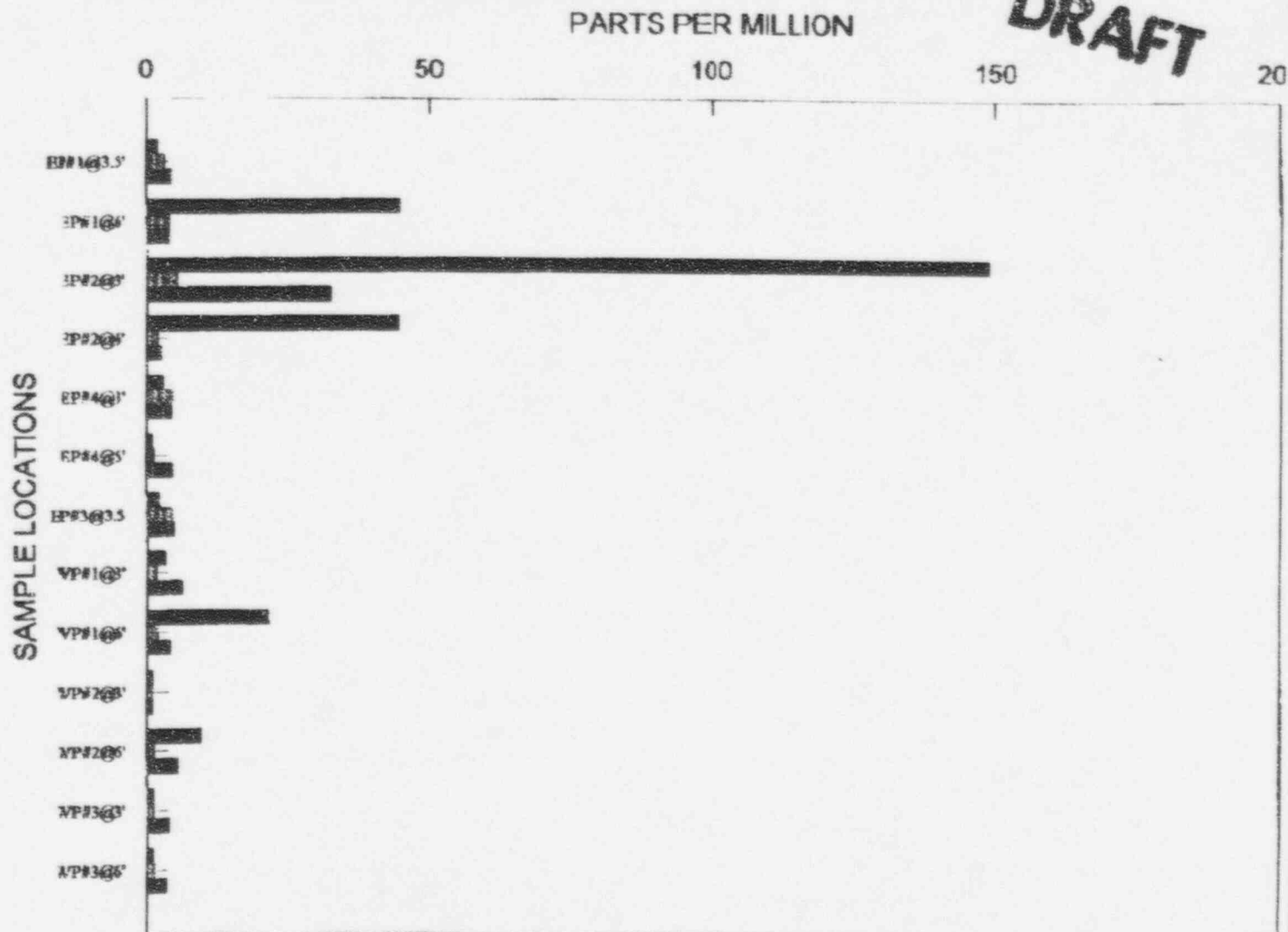
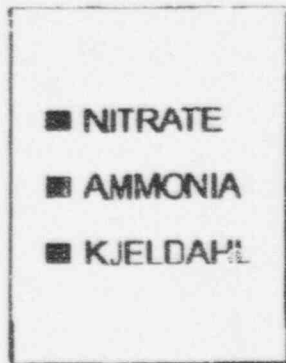
UNC  
Churchrock  
NMED 1995  
SOIL SAMPLE  
LOCATIONS



# UNC CHURCHROCK SUPERFUND SITE

## NITRATE STUDY

**DRAFT**





STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148190**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4871**Distribution☐ User 55410  
☒ Submitter 541  
☒ SLD FilesTo: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru . . .	WP #1 @ 3 Feet
At: 17:17 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	3.40		mg/L
ammonia	1.60		mg/L
Kjeldahl N	6.40		mg/L

Reviewed By:                     Diana Suvarnunt, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148191**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4872**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

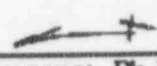
## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru	WP #1 @ 6 Feet
At: 17:25 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	21.70		mg/L
ammonia	1.80		mg/L
Kjeldahl N	4.40		mg/L

Reviewed By:

  
Diana Suvannant, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 10, 1995

Requested Priority 2  
ID No. 148192**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4880**Distribution☐ User 55410  
☒ Submitter 541  
☒ SLD FilesTo: David Trujillo  
ED Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995


## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru...	WP2@3Feet
At: 17:50 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	< 1.00		mg/L
ammonia	1.00		mg/L
Kjeldahl N	4.80		mg/L

Reviewed By:

  
Diann Suvannunt, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 10, 1995

Requested Priority 2  
ID No. 148193**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4883**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru . . .	WP2@6feet
At: 18:00 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	9.70		mg/L
ammonia	1.20		mg/L
Kjeldahl N	5.80		mg/L

Reviewed By: Diana Suvarnunt, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 10, 1995

Requested Priority 2  
ID No. 148194**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4882***Distribution*

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995


## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru . . .	WP3@3Feet
At: 18:17 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	< 1.00		mg/L
ammonia	1.10		mg/L
Kjeldahl N	4.20		mg/L

Reviewed By:

  
Diana Suvarnunt, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-7123

August 10, 1995

Requested Priority 2  
ID No. 148195**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4881**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

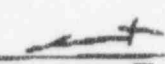
## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru...	WP3@6Feet
At: 18:25 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt	Units
nitrate+ite as N	< 1.00		mg/L
ammonia	1.50		mg/L
Kjeldahl N	3.60		mg/L

Reviewed By:

  
Diana Suvarnunt, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148183**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4874**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru...	EP #1 @ 3-5 Feet
At: 13:55 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	1.80		mg/L
ammonia	3.10		mg/L
Kjeldahl N	4.50		mg/L

Reviewed By: Diana S. Anant, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section



STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700

700 Camino de Salud, NE

Albuquerque, NM 87196-4700

[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148184**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4875**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

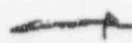
## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru . . .	EP #1 @ 6 Feet
At: 14:00 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	45.00		mg/L
ammonia	4.00		mg/L
Kjeldahl N	4.00		mg/L

Reviewed By:

  
Diana Suwannunt, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE.  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148185**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4873**Distribution☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru...	EP #2 @ 3 Feet
At: 14:25 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	149.00		mg/L
ammonia	5.70		mg/L
Kjeldahl N	32.50		mg/L

Reviewed By: Diana Suvarant, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE.  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148186**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4876**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

DEMOGRAPHIC DATA

<u>COLLECTION</u>		<u>LOCATION</u>
On: 31-Jul-95	By: Tru...	EP #2 @ 6 Feet
At: 14:48 hrs.	In/Near: Navajo	

ANALYTICAL RESULTS

<u>Analysis</u>	<u>Value</u>	<u>D. Lmt.</u>	<u>Units</u>
nitrate+ite as N	45.00		mg/L
ammonia	1.80		mg/L
Kjeldahl N	2.70		mg/L

Reviewed By:

Diana Suwannunt, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 10, 1995

Requested Priority 2  
ID No. 148188**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4878**Distribution

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 31-Jul-95	By: Tru . . .	EP #4 @ 3 Feet
At: 16:25 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
nitrate+ite as N	2.90		mg/L
ammonia	4.00		mg/L
Kjeldahl N	4.50		mg/L

Reviewed By: Diana Suvarnant, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 10, 1995

Requested Priority 2  
ID No. 148189**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4879**Distribution

- ☐ User 55410  
☒ Submitter 541  
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To: David Trujillo  
FD - Ground Water Section  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995

DEMOGRAPHIC DATA

<u>COLLECTION</u>		<u>LOCATION</u>
On: 31-Jul-95	By: Tru...	EP #4 @ 6 Feet
At: 16:30 hrs.	In/Near: Navajo	

ANALYTICAL RESULTS

<u>Analysis</u>	<u>Value</u>	<u>D. Lmt.</u>	<u>Units</u>
nitrate+ite as N	< 1.00		mg/L
ammonia	1.20		mg/L
Kjeldahl N	4.90		mg/L

Reviewed By: Diana Suvannunt, Ph.D. 08/10/95  
Supervisor, Water Chemistry Section

STATE OF NEW MEXICO

DEPARTMENT OF HEALTH

## SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700  
Albuquerque, NM 87196-4700700 Camino de Salud, NE  
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

August 8, 1995

Requested Priority 2  
ID No. 148187**ANALYTICAL REPORT**  
**SLD Accession No. WC-95-4877***Distribution*

- ☐ User 55410  
☒ Submitter 541  
☒ SLD Files

To: David Trujillo  
ED - Ground Water Section  
ED Ground Water Bureau  
1190 St. Francis Drive  
Santa Fe, NM 87503

From: Water Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, N.E.  
P.O. Box 4700  
Albuquerque, NM 87196-4700

Re: A soil sample submitted to this laboratory on August 1, 1995


## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 25-Jul-95	By: Tru...	EP #3 @ 3.5 Feet
At: 15:23 hrs.	In/Near: Navajo	

## ANALYTICAL RESULTS

Analysis	Value	D. Tent.	Units
nitrate+ite as N	2.30		mg/L
ammonia	4.70		mg/L
Kjeldahl N	5.20		mg/L

Reviewed By:

  
Diana Suvannunt, Ph.D. 08/08/95  
Supervisor, Water Chemistry Section